

# Andrews tells the Prince — get rid of Rod Hackney

**RAYMOND** Andrews has accused Rod Hackney of using the techniques of a second-hand car dealer in his election campaign for the RIBA presidency — and he has told the Prince of Wales to find a new architectural adviser.

Andrews said this week that Hackney's joint "dream ticket" approach with David Rock was

By Lee Mallett

his running-mate "is known as a 'switched' sale in the second-hand car business."

He maintains that Hackney has adopted the dream ticket tactic so that if he also wins the RIBA presidency it will "enable him to travel the world... whilst

David Rock assumes some special vice-president role as a 'focum' minding the shop in his absence".

According to Andrews, "the membership do not want this; they have a right to see and know who is in charge and do not want to be 'fobbed off by proxy because the landlord is awry'."

Andrews also dubbed Hackney's tactic "a transparent attempt to win votes because of Rock's popularity, even though Rock came third in the RIBA Council election for president after myself and Ray Cecil".

Andrews thinks Hackney will

be spreading himself a bit thin if he attempts to be president to both UIA and the RIBA. "You can't do both at the same time," said Andrews, "you must be able to give yourself wholeheartedly."

Rock, Hackney's running-mate, was unimpressed by Andrews' allegations. "The amount of time Rod Hackney will be spending abroad with the UIA presidency is quite small and greatly exaggerated by Raymond Andrews," he said.

Rock estimates that the UIA could perhaps involve 15-20 days travelling a year, and that a majority of those events Hackney would also double as RIBA's president.

"Raymond is really trying to make a point where there isn't one," said Rock.

He saw nothing unusual in the president devolving some of his functions to any of the RIBA's six vice-presidents, or to the one the president regards as his senior vice-president.

"I see it as natural," he told BD.

• The Prince of Wales should drop Rod Hackney, says Andrews. He said Hackney claimed to be his unofficial "architectural adviser". But someone with a wider knowledge and fuller understanding of the profession should be appointed.

"Dr Hackney's narrow experience does not accord with

## Maintenance in need of shake-up

COUNCILS could save up to £700 million a year if they managed maintenance programmes of their 4.8 million homes better.

This is the conclusion of the Audit Commission, which monitors local authority spending and performance.

The commission, in a wide-ranging report, claims that:

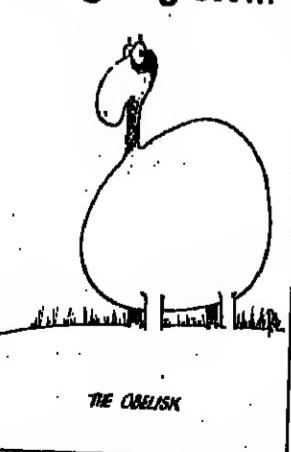
- abortive calls on jobbing repairs can account for more than 20 per cent of all calls;
- many authorities do not secure effective competition for repair work, even though tender prices can be in the ratio of 2 to 1;
- redecoration and repair of homes left vacant can cost up to £1,000 per re-fit — even though tenants are responsible for maintaining houses in good decorative order.

The commission proposes a three-stage plan to bring the maintenance problem, which could cost up to £20 billion to put right, under control.

First it wants a planned inspection of assessment of maintenance needs in all dwellings; secondly the start of managed maintenance on the basis of the existing best practices; and thirdly the seeking of new sources of finance to pay for the necessary work.

The report, *Managing the crisis in council housing*, is published by HMSO price £5.95.

...signing off...



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ABC

## Insall's latest award

The repair and cleaning of the Public Record Office (Library pictured) in Chancery Lane, London, has won the restoration category in the Worshipful Company of Stone Masons Awards, presented by the Duke of Gloucester on Wednesday.

Donald Insall & Associates were architects for the Property Services Agency.

The winner of the new-build category was the five-storey Friary Court offices in the City, designed by Chapman Taylor.

Andrews believed Jeremy

Dixon or Bernard Hunt of Hunt Thompson would make better advisers, along with Bill Reed, Birmingham city architect and Colin Stansfield Smith, Hampshire county architect.

A Buckingham Palace spokesman would not reveal who advises Prince Charles but said: "He takes advice from a number of sources and those sources are confidential."

Work is scheduled to begin in 1988.

### New Oldham

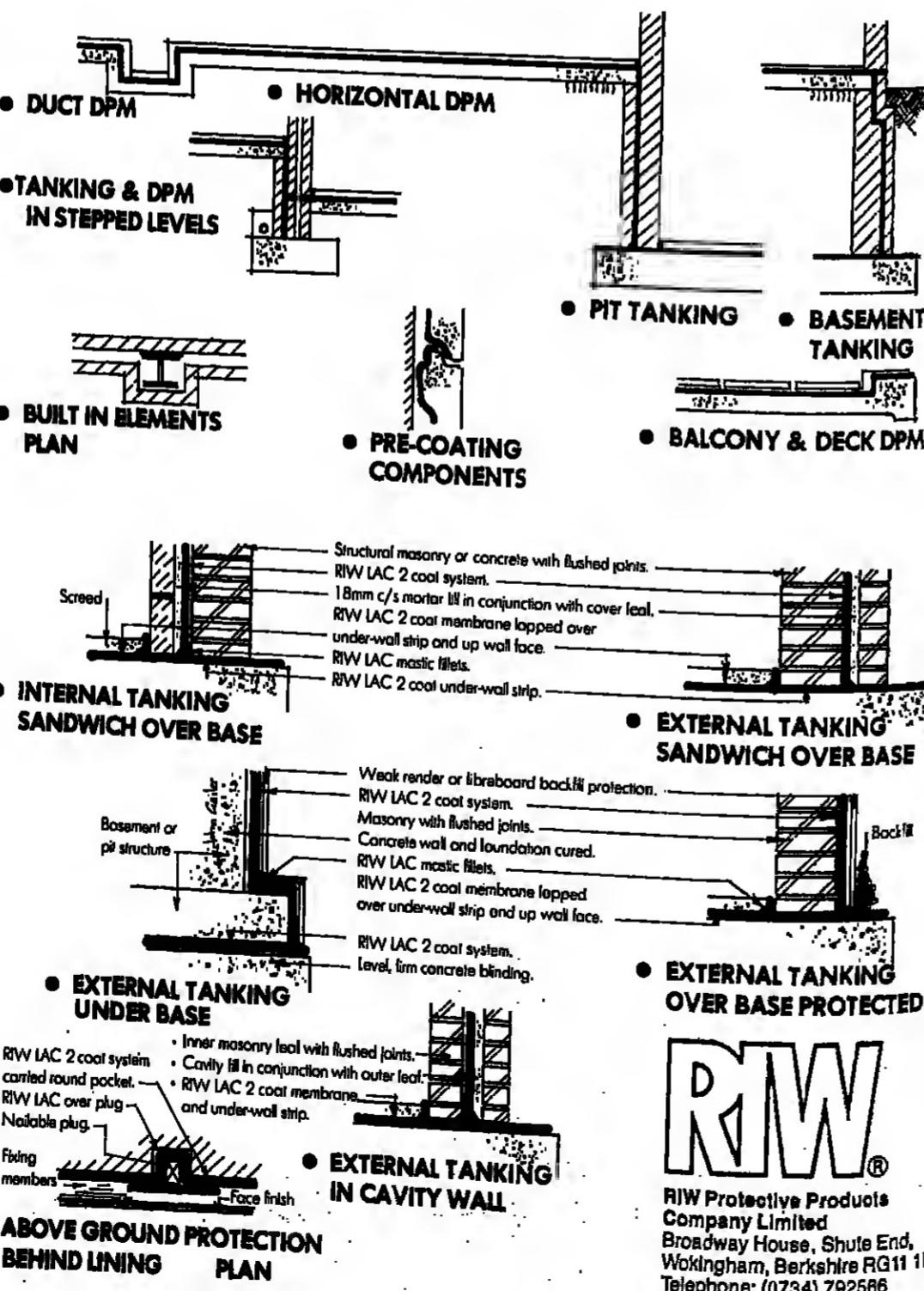
OLDHAM council has approved a £50 million town centre development designed by Bernard Engle & Partners.

It will have 27,000sq m of floorspace arranged around three glass covered sections.

Work is scheduled to begin in

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## Institute comes in for criticism

THE RIBA came under attack on two fronts at this week's council meeting — from students and salaried architects.

Jake Brown, council member and co-author of the new Salaried Architects Group's report *The housing issue*, accused the RIBA of having "no recognition" of the housing problem and "statistical evasion".

According to Brown, the RIBA's reaction to the spending increases for housing, announced in the Chancellor's recent autumn statement, gave "no idea of how the figures were going to relate to the total problem".

He said the SAG report drew attention to this problem and emphasised the need for "real data".

If the public were to come to the RIBA headquarters, he said, they would find no recognition of the situation, even though they can read about the housing crisis in the papers.

On the student front, a survey of every architecture school in the UK revealed that the relationship between the RIBA and the schools was "at rock bottom", it was claimed.

continued page 3

## Riverside design runs into City planning objections

Authority had objected to a building projecting into the river.

It refused to grant developer Wates City of London Properties a licence for the proposed project.

The scheme incorporated features encouraged by the City — for example it improves sight lines to St Paul's.

Also the Port of London

## Drawings favourite

FAVOURITE to be appointed as new curator for the RIBA Drawings Collection is Dr Thomas Cooke, an architectural historian specialising in churches. He works as an investigator for the Royal Commission on Historical Monuments and is an associate fellow of Pembroke College, Cambridge.

### District nursing



Solar Control

At the forefront of building design

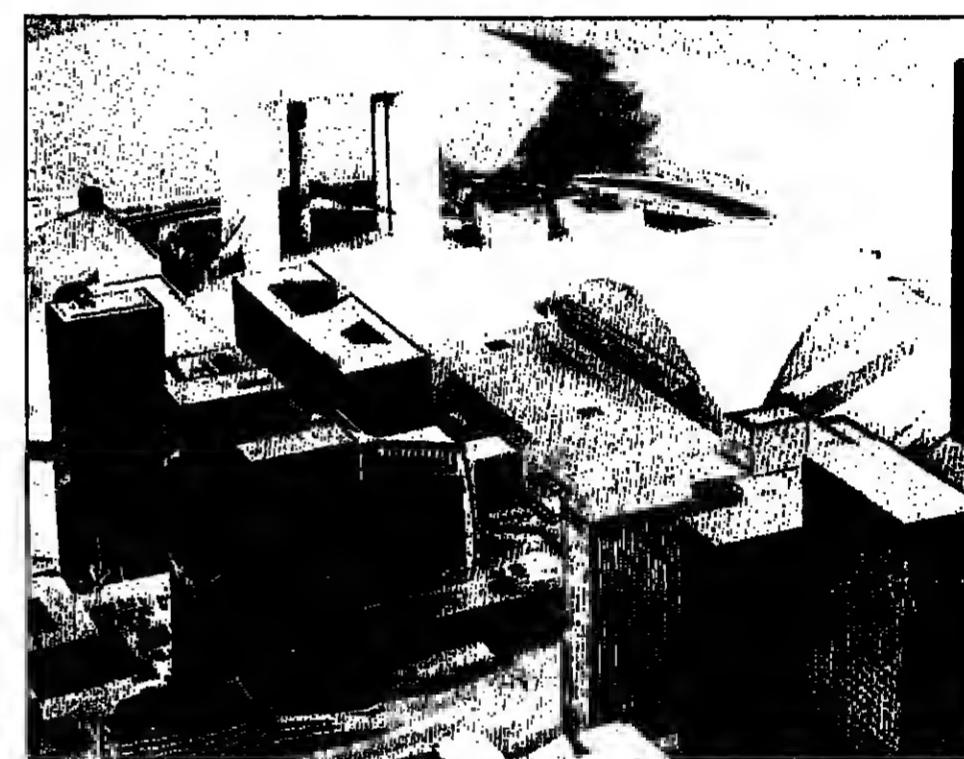
# BUILDING DESIGN

The weekly newspaper for the design team

FRIDAY NOVEMBER 14 1986

Competition-winning Dane has had enough of French politics

## ARCHITECT QUILTS IN PARIS FIASCO



Above: The cube design Spreckelsen is leaving behind — uncannily like the way Joris Ivens, another Dane, quit his Sydney Opera House project in 1966.

## BDP win massive offices contract

BDP are to design a major new "Big Bang" building on the Embankment in the City of London, beating off competition from major US practices.

American bank Morgan Guaranty has picked BDP to design its new \$1,000sq m headquarters on the former City of London school site close to the northern side of Blackfriars Bridge. The site also includes the former Guildhall School of Music & Drama.

The bank bought the site in a highly competitive tender in May earlier this year from the City Corporation.

Apparently 20 architects, all major firms, were approached by the bank including "two or three" American practices, according to Paul Pearce of Morgan Guaranty.

Richard Saxon is handling the scheme for BDP and the firm are currently producing a detailed study of the school site and possible solutions for Morgan Guaranty.

According to Pearce, work will start on the site in February when the bank takes possession. BDP will be aiming to get a detailed planning consent by then if possible.

A detailed consent was granted on the site in the 1970s when Wimpey and Trafalgar House were competing to develop it.

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## Rostrum

COLIN Amery's lecture on "Approaches to the New Museum" was an absorbing verbal equivalent of his subject, the museum as an encapsulation of architectural history.

With a wide and original selection of examples, Amery showed how museums have reflected the changing course of architectural theory and design since they emerged from the private palaces of the Renaissance and went public in the 18th century.

Apart from being built mainly in Germany, these first public museums prefigured contemporary equivalents in being cultural centres — in the true sense of the Greek word for museum — comprising libraries as well as collections of painting and sculpture.

But unlike Schinkel's Altes Museum in Berlin, which used the building as an architectural history lesson about the classical orders, Stirling's Staatsgalerie is "a parable about modern art" suggested Amery, with structures that go nowhere among its analogies. It does go back to the museum as teaching tool by exploding Schinkel and opening it up to the world in a modern way to explain art and tradition, though the uninitiated visitor might think the Weissenhof-style back was simply buidish modern architecture.

Stirling's new Tate extension is about the history of modern architecture, Amery believes. It has references to Boullée and Lutyns among others and he was pleased to note that Stirling has calmed down with his "technological jokes and frightening colour schemes", as well as realising that buildings must have more than one layer of meaning. In the exterior of the Fogg Museum in Harvard, Amery thought Stirling had been less successful, though the inside was "wonderful".

The Tate extension is a rare departure from the "awkward British tradition of converting old buildings" which placed the pre-Smirke British Museum in Montague House in 1820. While Munich and Berlin were using high cultural language — a porticoed hybrid of ancient Greece, Imperial Rome and Renaissance Italy that spells instant boredom — to build their archetypal museums, things were more relaxed in England, explained Amery.

When our national art collections emerged from their country houses to be united with the

Colin Amery talked about museums at the Royal Academy. Jan Burney bought a ticket.

## Fighting museum fatigue



Amery — favourable comparisons.

artistic loot from the Napoleonic wars they were not displayed in "horribly didactic" monuments, but in little practical complexes like Soane's Dulwich group which also included six almshouses.

Amery drew attention to the incomparable, changing light of Soane's picture gallery — still the shrine to which all architects trek when they have won the commission for a new gallery project. Light is also the most important quality of the Kimbell Museum in Fort Worth, built by the "poet of American architecture", Louis Kahn. Kahn repeated his skill and understanding in 1977 at Yale's Mellon Centre, the storehouse of all the best British art that American collectors have managed to export. Here too, Kahn succeeded in persuading curators to overcome their customary terror of light and created, appropriately, a setting reminiscent of an austere English country house or a Renaissance palazzo.

In his museum at Mönchen-

Private patronage and "intelligent tax laws" have encouraged wealthy American collectors to donate generously to the nation and all serious cities in the US consider it essential to possess their own museums. When the National Gallery of Washington was built in 1941, Beaux Arts classicism was still considered the only appropriate museum style.

Amery surveyed the newest international museums from Richard Rogers' "first exposing of his intestines" at the Pompidou Centre to Richard Meier's High Museum at Atlanta, a cut-out building best for displaying Japanese kites, and I M Pei's marble hall in Washington built in the "airport atrium aesthetic" and very good for parties. He described the new chain of museums in Frankfurt a second asset to complement its exquisitely designed financial newspaper — and concluded with a glance at the unsuccessful projects of the National Gallery extension shortlist.

Even if Piers Gough's design for the gallery extension could just as easily have been for the Odeon at Neasden, Amery was happy to point out the favourable comparison of all these schemes with the museum buildings of Brasilia and the Hayward Gallery. The liveliness of his lecture and its content had inspired confidence that they were indeed anachronistic remnants of a tradition that was now dead.

## Camden appointment

CAMDEN council has appointed Hunt Thompson and the London Research Centre — the former GLC's housing research unit — as consultants for the Hillview Estate in Kings Cross, London.

Hunt Thompson smicilly hired by Hillview

## City visions

Fred Roche spoke about building cities at the Royal Academy last week. We present edited extracts from his talk.

ARCHITECTS and urban designers have a major role to play in initiating and providing for the vision of the city which reflects our aspirations, our dreams, our yearnings to live and work in convenient, stimulating and beautiful environments.

To achieve this we need to build a new partnership between the design professions and the communities they serve. It is no good waiting for others to take the lead in creating our vision of the city.

The vision will inevitably be multi-faceted. I suggest the

first characteristic is that it should be "a plus which says yes". In that sense one will be very different from most plans. The second characteristic is that the vision will express the quality of the environment to which the community aspires. Above all not only should the vision be realistic it must be exciting. Its purpose will be to stimulate politicians, individuals, community organisations, private developers and investors to believe that the city could be made into a better place for people.

In some communities in Britain — Glasgow, Edinburgh and Huddersfield, to name three that I know personally — the business community is taking the lead to work closely with locally elected members and officers to plan for the future of their city.

In the USA, joint efforts by the business community and local government are common — here they are all too rare. I am in no doubt that municipal leadership grounded both in the public and private sectors is a fundamental prerequisite to any effort to bring our cities back to life. In many British cities, the gulf between local government and the local business community is far too wide.

All party leadership is necessary — private investors cannot be expected to invest, or reinvest in a community's assets if the community as a whole is not working together. I have no reservation in suggesting that those communities where local politicians bicker over minor planning matters and other services, virtually ignoring the future of the community, do not deserve major investment from central government or the private sector.

We must establish effective machinery for regional planning; for the reasons I have already given, our cities cannot be viewed in isolation from their regions. The last regional plan

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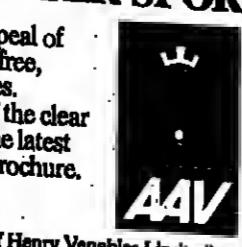
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## Architecture day that never was

ATTEMPTS by the International Union of Architects to establish a "world day of architecture" took like flying, at least in the UK, for the third time in succession.

A report to RIBA Council this week notes that the initiative, launched by current union president Georgi Stellwag in January 1985, left too little time for any action to be taken by the institute that year. The proposed day was July 1.

This year, the UIA council decided in April that that day should again be July 1, and he

linked to the refugee Nations' "year" — the day would be designated architecture and peace".

Because information proposed day was communicated in Portland June, nothing was done.

THE RIBA is offering to subsidise sexual relationships with its latest plans to reduce annual subscription rates for husbands and wives, according to SAG member Jake Brown.

And he claims the Institute could be in violation of the Sex Discrimination Act if it does not offer the same deal to gay men or women living together.

Where a husband and wife are both members, either one may claim a reduction in the rate of the RIBA annual subscription.

Such a reduction would be 75 per cent of the lesser subscription payable by either for the year.

The main saving for the president's office is if it then need only send out one copy of *The Architect* each month.

Bob Giles said the discount plan was sexist and not worthy of the Institute. "The Institute should not get involved in the domestic affairs of its members," he said. An amendment to dismiss the rate was defeated by 19 votes to 17.

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ond half of the Onslow report and to meet rent increases. The amount of subscription income returned to Scotland will increase by £18,500. Ulster community architecture is to

expenses of members of British Standards Committees, £2,500 has been allowed for the International Students Competition and £2,500 for the president's medal scheme.

And members are facing a 10 per cent increase in subscriptions — giving a top rate of £132 — to pay for it.

Policy committee's annual conference identified four areas which deserved special attention. These were architectural education, broadening the base of the institute and developing it as an architecture centre, community architecture and the development of a new marketing strategy.

Next year's budget, estimated at over £4 million, includes some significant increases. The regions are to receive £12,000 and £10,500 has been earmarked for increased maintenance at Portland Place. Additional expense for the president's office of £8,000 takes the yearly expenditure figure up to £44,680.

The library has been allocated an extra £4,000 for the acquisition of drawings, £3,000 for the

redevelopment schemes for approval. There are also wider powers for local housing authorities to delegate the management of their estates, subject to consultation with tenants.

The planning provisions, which cover Scotland as well as England and Wales, include new controls over hazardous substances and direct government assistance for urban regeneration.

The introduction of simplified planning zones is seen as the most radical section of the Act, allowing specified types of development without the need for planning applications.

The procedure for establishing SPZs is similar to that for the adoption of local plans, with provision for public inquiries to hear objections.

SPZs cannot be established in green belts, national parks or outstanding beauty, and sites of special scientific interest.

The Royal Town Planning Institute has criticised the introduction of SPZs as "a complicated piece of unnecessary legislation".

The Act makes it unlawful to practice racial discrimination in planning.

It also includes a number of changes to housing legislation.

Public sector landlords are given new powers to submit

changes to their leases.

PROPERTY Services Agency policy on quality assurance is explained in a new booklet.

The PSA now requires quality-assured products and services in its contracts and is extending this to design and construction processes. The booklet is available from the PSA, Whitgift Centre in Croydon.

All party leaders are invited to attend the academy.

THE Royal Academy's exhibition "New architecture; Foster, Rogers, Stirling" is attracting great interest.

The average daily attendance is 1,344 visitors, including a large number of young people.

BD is still interested in readers' 200-word reviews of the exhibition.

THE RIBA is the closing date for entries in this year's Colorcoat Building Awards.

Any building built or restored between July 1983 and June 1986 using Colorcoat pre-painted steel is eligible for the competition with a first prize of £1,000.

Details from BSC Colorcoat Building Awards Administrator, Sales Promotion Department, PO Box 10, Newport, Gwent NP9 0XN. Tel: (0633) 272281.

The DoE wants local authorities, telecommunications operators and environmental groups to comment on the proposals by January 16.

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BY HENRY HAVERSTOCK

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EASIBRIEF

## News



Award: Prizes of Wales Conservatory, Kew. All steelwork has design restrictions on its use were severe. There was no bracing, no lattice members, no trusses, standardised steel sections, and easy external access was a major consideration.



Commendation: Computer Centre, Lennox Wood, for Sun Alliance. Architects: Michael Aukett Associates; structural engineers: Anthony Hunt Associates.

### Prized steelwork

Four buildings have won Steel Design Awards since Hong Kong & Shanghai Foster Associates (members Ove Arup) and others at Kew by the Prudential, and by Milton Keynes Development Corporation, and British Great Yarmouth, Cleveland Bridge & Cass Hayward & Partners. The awards are sponsored British Steel Corporation & British Construction Steel Association.

## 'We still want to move RIBA drawings' say the trustees

THE Trustees of the RIBA Drawings Collection have reaffirmed their support for the "grand design" to move the collection back to Portland Place and the creation of a centre for architecture at RIBA headquarters.

An emergency meeting of the trustees was held last week in the wake of the row that has developed over moving the collection.

In a statement issued this week the trustees say they "will have the primary role to play in raising funds to pay for the move and to expand the library and its services. They realise this will be

routinely and the Government would allow the collection to be moved."

Opposition to moving the collection from its present Portland Place site comes from those who think the planned to house it is inadequate. The "grand design" principle, apart from the general support, is generally supported.

The move is also supported by some who think the collection has been minimal over the past few years. They see no reason why the collection should now be used to its full potential.

The British Architectural Library trustees include

of Perth, Bryan Moore, Sir Peter Parker and Sainsbury MP. The initiated trustee is Mrs RIBA II, a descendant of the founder of the Drawing Collection, where the Drawing Collection is now shown.

"Ex-officio" trustees include the present RIBA president, Larry Rolland, Nick Blundell, Council secretary, RIBA member Noel Worrall and Librarian John Wells-Thorpe.

It would also have its own entrance at Portland Place, purpose-built gallery and other specialist facilities, closely linked to the extra facilities the RIBA has planned to promote wider use of the Portland Place headquarters by both architects and the public.

Once the British Architectural Library, which includes the archival material, book collections, photograph collections, models, paintings and sculptures, and the Drawings Collection are all located at Portland Place, then it would become a national subject museum.

This, it is argued, would enable funds to be raised more

### Jamaica assessor

JOHN Wells-Thorpe, of the Commonwealth Association of Architects, has been appointed assessor for the governor-general's award for architecture in Jamaica.

Awards will be made in categories and a specialist category. The Housing Trust Award will be given to the best low-cost housing project, said by Wells-Thorpe, former CAA involved in the National Year for Shelter Homeless 87.

The Covent Garden Communities Association argues that the car park will cause traffic congestion.

## Benns launch appeal

TONY Benn MP and his wife Caroline are to launch an £85,000 appeal to save 37a Clerkenwell Green, London EC1 — an early 18th century listed building with political associations.

In 1892, for example, the Social Democratic Federation established the first Socialist Press there with the financial support of William Morris. In one of the rooms during 1902-3 Lenin edited the newspaper *Iskra* (*The Spark*) which was distributed illegally in Tsarist Russia.

In 1933 the building was bought by the Labour Research Department and the Marx Memorial Library was housed there.

The appeal is being launched to raise cash for damp-proofing and other structural repairs and improvements. Contributions should be sent to The Treasurer, Marx Memorial Library, Freeport, 37a Clerkenwell Green, London EC1R ODU.

## Birmingham takes steps for a smarter city

BIRMINGHAM City Council is to spend £2.5 million over three years from next spring to pedestrianise its main shopping thoroughfares, New Street and Corporation Street.

The programme will include a variety of enhancement schemes and tourism projects around the city centre. New arcades and colonnades will be built.

"It will be another vital step in making Birmingham a truly international city."

Further improvements are planned for the Bull Ring and the Convention Centre area during 1987/88 using funds from the urban programme.

Labour councillor Fred Chapman, chairman of the planning committee, said: "We have been talking for some years now about promoting ourselves as an international city. We have been talking about pedestrianising New Street and Corporation Street and that is now going to happen."

Work will also be carried out in John Bright Street, Hurst Street and the jewellery quarter.

The Chinese quarter will be developed.

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Two Danish developers, the Islet Group and Christiansen & Nielsen are planning this £25 million housing scheme at Greenland Lock in the Surrey Docks south of the Thames in London.

Designed by Danish architects, Kjaer & Richter, the scheme covers a 1.3ha site on either side of the entrance to Greenland Lock.

Flats, maisonettes and family homes are planned to echo the classical architecture of 19th century London so square, circles and terraces are included in the design.

Called Greenland Passage, the development will consist of three- to five-storey buildings around a central courtyard on each side of the lock entrance. At the northern side of the development a small street is formed by a row of four-storey houses and flats, culminating in a small tower overlooking the river. The river serves as the focal point for the scheme and the frontage becomes an extensive landscaped public plaza overlooked by the two curved terraces, one convex, the other concave, of the central buildings.

## Surrey plan published

DETAILS of the public examination of Surrey County Council's alterations to the Surrey structure plan have been published by the council.

Interested parties have until December 2 to object to the issues or participants selected.

Issues to be discussed include the future of the green belt and the countryside and future provision for housing.

The examination opens at the Martineau Hill, Dorking Halls, Reigate Road, Dorking on February 3, 1987.

## Suspended architects vie for Lambeth directorship

LAMBETH council's two most senior architects — both suspended on full pay by the local authority — have applied for its vacant director of development post.

Herb Meyer, a practice manager, was suspended on July

17, 1985 and is still waiting to be informed of the charges against him. Mark Drummond, a principal architect, was suspended earlier this year.

An internal inquiry into Drummond's case at the beginning of October dismissed seven charges against him, but recom-

mended he should be sacked for talking to the press. He has not been formally notified of the decision.

He was surprised to learn that BD had been sent a copy of his application but he said it was serious and he expected to be called for an interview.

Since the departure of a large number of architects from the council he is the second most senior, has worked for 11 years, and lost yet handled a third of his completed projects.

He named John George, the chief executive of the council as one of his referees. Normally, he said, he would have named Meyer because he was his immediate boss, but as he had been suspended and his boss James Campbell had left the council, George was the logical choice.

Friction between Drummond and some members of the council developed after Meyer

was suspended for alleged mismanagement.

Drummond was suspended after he spoke in national papers about the case and criticised the council.

In June another member of the architects' department, Nigel Conqueror, had been suspended over £500 for threatening Drummond and had a subsequent appeal rejected.

Meyer refused to comment on his job application except to say it was serious.

He has now been waiting almost 16 months to hear what the disciplinary charges against him are.

## Local sports guidance

THE Sports Council has published two design guides for local sports centres.

They appear under the Sports Council's "Standardisation approach to sports halls" (SASH) initiative.

Indoor dry sports building and swimming pool option are available from the Sports Council Publications Unit, 16 Woburn Place, London WC1 at £20.

The judges said they were impressed by the quality of the owners' designs.

Young and old people often favour the inner city for its communications and access to social life; families too, especially first-time buyers before they exceed the upwardly mobile ladder of buying and selling property that slowly but surely leads them outwards into the commuter belt. But it must always be remembered, even by the Prince of Wales, that it will inevitably be more expensive to build in the inner city.

Young and old people often favour the inner city for its communications and access to social life; families too, especially first-time buyers before they exceed the upwardly mobile ladder of buying and selling property that slowly but surely leads them outwards into the commuter belt. But it must always be remembered, even by the Prince of Wales, that it will inevitably be more expensive to build in the inner city.

If I built unchecked they can lead to the total write-off of a building.

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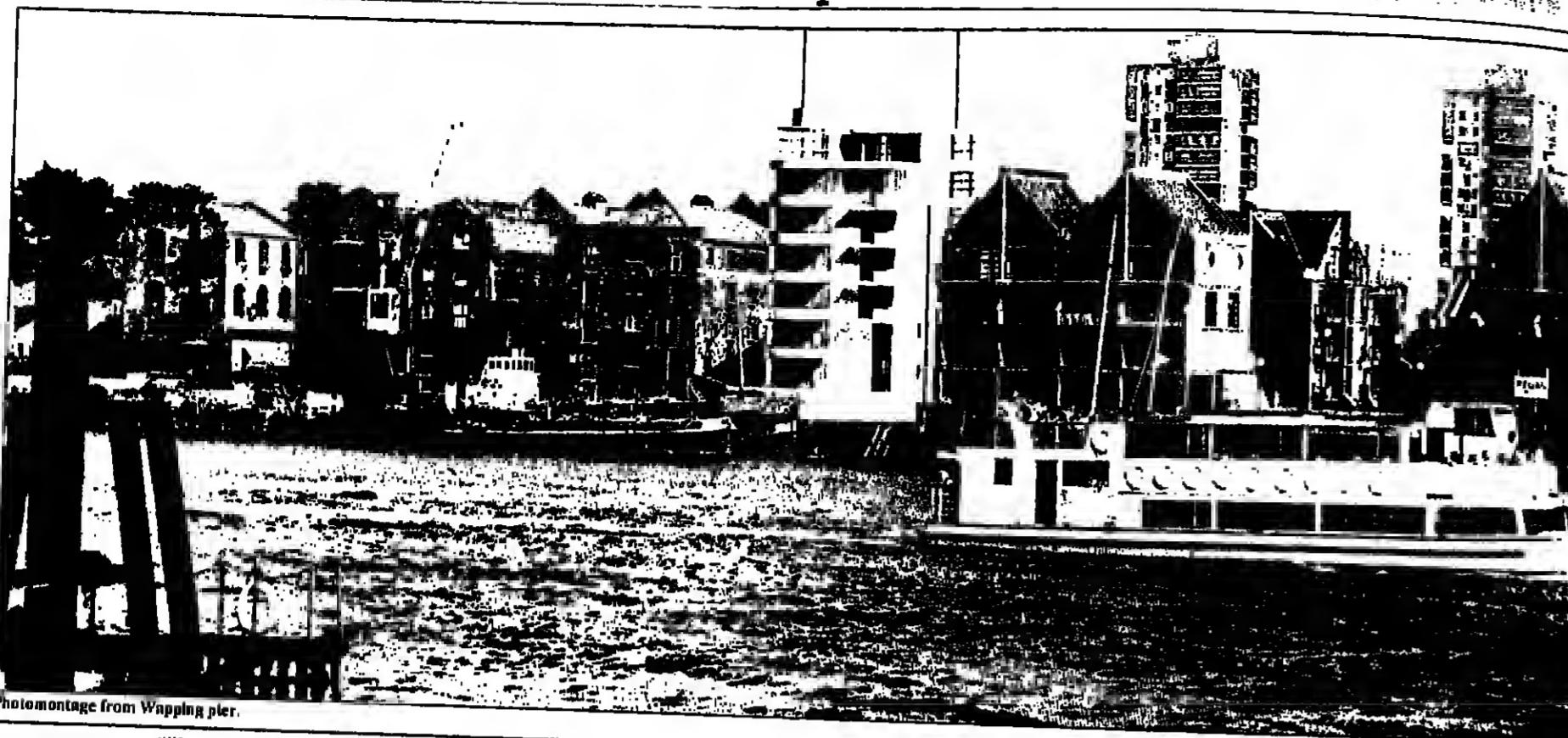
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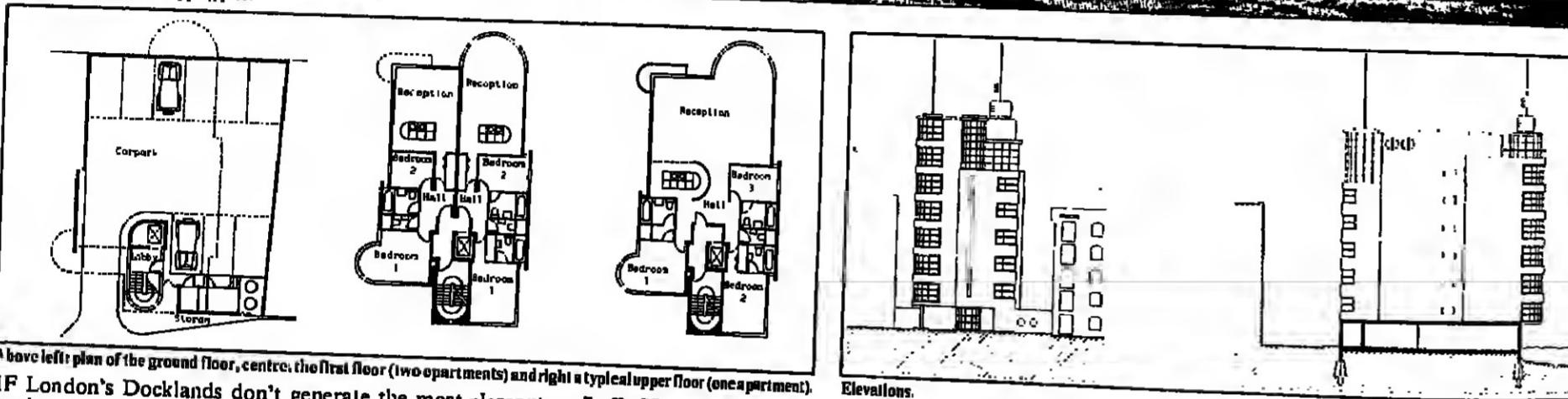
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With BACO Contract's design and build

## Perspective



Photomontage from Wapping pier.



If London's Docklands don't generate the most pleasant environment in which future generations can live, work and play, they will certainly provide the architectural historian with plentiful, if somewhat confusing and contradictory, material with which to piece together the story of our confusing and contradictory times.

Nowhere will this be more apparent than at Elephant Lane where, amid a number of retained 19th century warehouses, a competition-winning housing scheme has recently been built (by Corrigan, Soundy & Kilndrew) and permission has just been granted for a "Modernist" apartment block to the designs of Troughton McAslan.

And while Elephant Lane represents a contemporary reinterpretation of Thameside vernacular in brick, tiles and

## When Modernism means historicism

concrete, the adjacent scheme will recall (according to the designers) the work of modernist pioneers like Mendelsohn, Connell, Ward & Lucas and Frank Lloyd Wright, with its ribbon windows, curved bays and balconies and nautical references.

The apartment block is set in the Rotherhithe conservation area and its plans have the support of both Savoy and the Royal Fine Art

Commission, who are both presumably happy to encourage development of a rich and varied urban environment along a particular stretch of the river.

Troughton McAslan's comments accompanying the scheme give "clear reference to the (Modernist) past", paying "homage to the nautical tradition and to buildings like Millwall Flora Hall as well as responding to its context with a re-interpretation of St. Rotherhithe Church", while "staying clear of the warts-pastiche" — indicate their concern with the stylistic and contextual aspects of the building, and in such the proposal can be seen as historicist in approach, perhaps more overtly so than Elephant Lane itself.

The scheme will start on site next spring and complete expected by spring 1988.

## Scorpio



### Strange case of the headed notepaper...

LARRY Rolland is infuriated by a letter written by Rod Hackney, on RIBA-headed notepaper no less, to the presidents of all the UIA affiliated institutions. It promotes Hackney's candidacy for the presidency of the UIA — against the institute's official candidate, Owen Luder.

But was Hackney wrong to do so? The answer lies in the minutes of a meeting on June 19 once as "a working interior" explained Ambridge "and secondly as an exterior that impinges on the public's environment". There is no category for unrealised BBC headquarters designs.

These show that not only did the committee unanimously reaffirm its decision in favour of Hackney being the institute's nominee for the UIA presidency, but that this should be made clear to the national sections within the Union. What is more, so alarmed was the sub-committee by the way in which its own recommendations were blocked by policy committee and the president, that it considered measures including resignation en bloc and asking Luder to stand down from the election.

The sub-committee expressed its dismay "over the lack of formal consultation on these matters and the lack of production of any evidence to support the president and policy committee".

And finally the committee decided that "it was its duty to inform the UIA general secretary and the national sections of the views expressed".

Strangely enough, I do not recall these matters being aired at the council meeting when Luder was adopted as candidate, but there is obviously a simple explanation I have overlooked.

● Memo to mole-hunters: this information did not come from Hackney.

## Minaret madness

LEON Krier's classical time-warp may not be the only unusual addition to the Spitalfields skyline.

On the border of the development area is the Brick Lane mosque whose proprietors have produced near-apoplexy in some conservationists with their desire to add minarets to the 1743 building.

I hear English Heritage, sore about internal work performed with ecclesiastical exemption, are advising Tower Hamlets council to refuse planning permission for the "clamping on" of minarets to the building.

But recognising the need for a mosque to express itself as a mosque they would be more favourably disposed to the erection of a separate structure on the restricted plot of land behind the building. Just like putting a church spire in the graveyard.

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## Letters

# Lucky dip in cavity dustbin

**From Eric Ambrose**  
YOU report (October 31) that Richard Seifert has made a strong plea for regular inspection by clerk of works where fast-track building methods are used, lest we have another Ronan Point disaster: "Recent tests... have found evidence of joints packed with cigarette ends and tin cans instead of the mortars specified".

I am not sure I know exactly what "fast-track methods" are but I regret disbanding my collection of artefacts found in all sorts of cavities during a dozen years of fault chasing. I was particularly proud of half-in bowler hat I unearthed in a south coast city development and remember pleading with the city architects to step outside and look at it but he said (I quote from my diary): "One swallow doesn't make a summer — this building was perfect till your clients improved the insulation!" I think he was frightened he might recognise the hat.

As for my cigarette packets, these included Woodbines, Miranda's Dream, Ardath, Black Cat, Gold Flake and Weights, all prized by philofumigists. The containers included both large and medium size by Heinz and Nestlé, but my favourite (proving that the problem is not new and must have commenced with the first cavities) was an R W & S

White lemonade bottle with an embossed warning east in the glass "No deposit charged on this bottle". This now stands on my window-sill as a monument to the British brickie's faith in his work to withstand the elements.

You may be interested to learn that Stirling was my assistant in the early years of the 1950s with GMW Partnership, where his design for the roof buildings of Sheffield Technical College was described by the then partners as looking like a ship with masts and funnels.

There is obviously a supposed admiral in his basic make-up.

**Robert Smith**  
London W1

## Undamaged research

**From R Watson, director, Building Research Establishment**

OUR lead story headline (October 31) "BRE research hit by PSA's repair policy" is misleading. As I explained to Amanda Baillieu, no priority research is being held up as a result of deficiencies in Building Research Establishment buildings.

Scarf forces can be avoided quite simply by ending work on Fridays at lunchtime. The men will be happy, the clerks of work relieved and on their toes, nor will there be any slowing up of the contract.

Most building problems can be solved with a little thought!

**Eric Ambrose**  
London NW4

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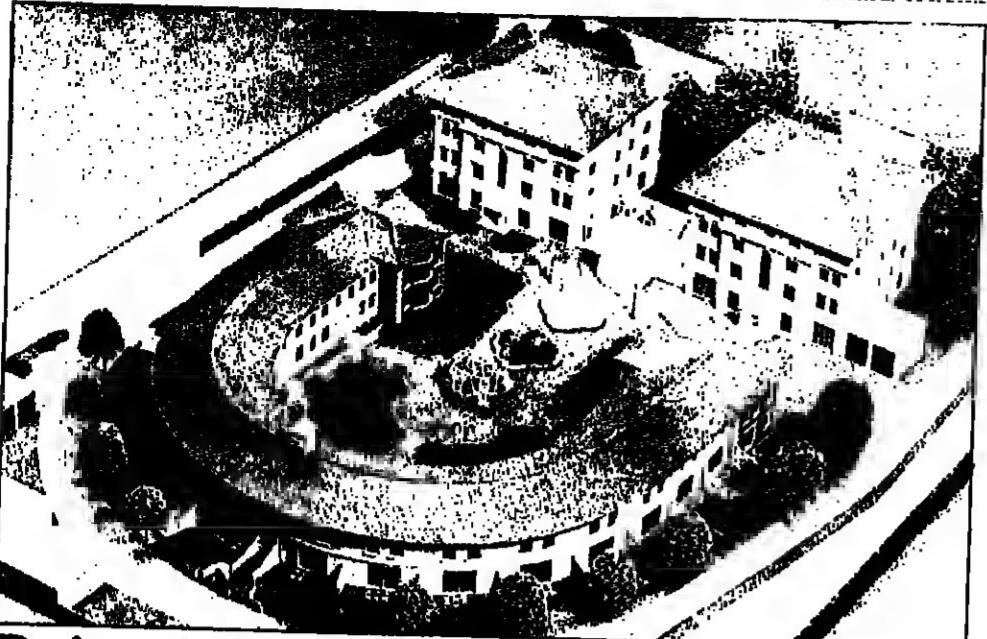
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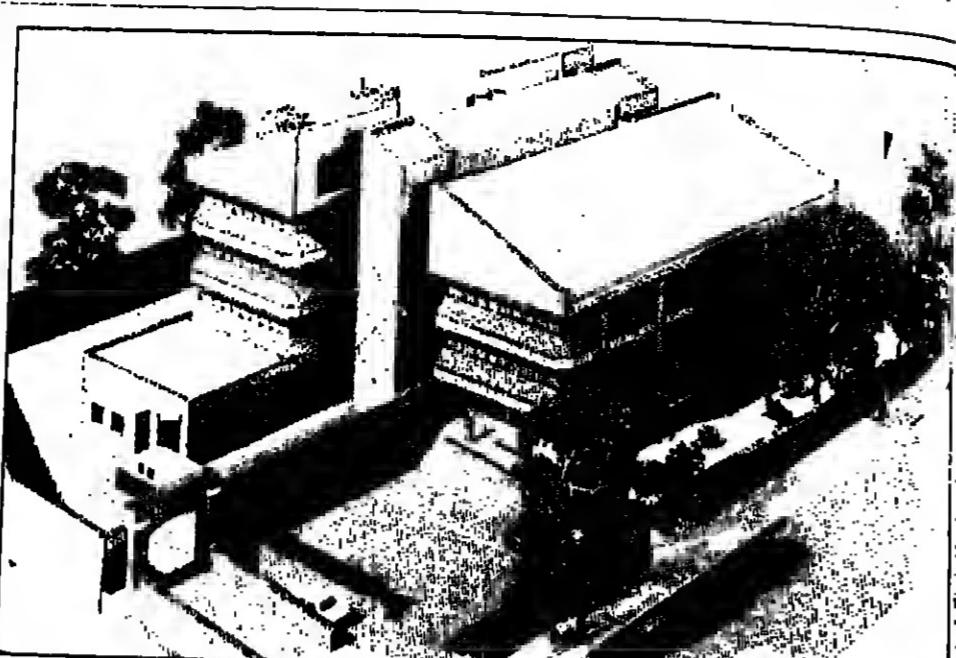
## News in pictures



## Bringing back history

Pepys Court Retirement Homes in Cheltenham gave architects the Falcon Partnership the opportunity to design the first crescent there for 150 years.

The show-homes reflect the traditional style and planning of the development which features a Victorian



## Law recruit

The construction of a new divisional police station is underway at South Norwood, near Croydon. Raymond Smith & Associates, listed with the Metropolitan Police director of property services to design the £3.8m building, which has a reinforced concrete frame and basement with brick cladding. Completion is expected in December 1988.

timber conservatory with tile pattern flooring. It links the two Regency-style apartment blocks which front the development. The crescent comprises new cottages and apartments enclosing a formal garden with ornamental pond and rose arbour.

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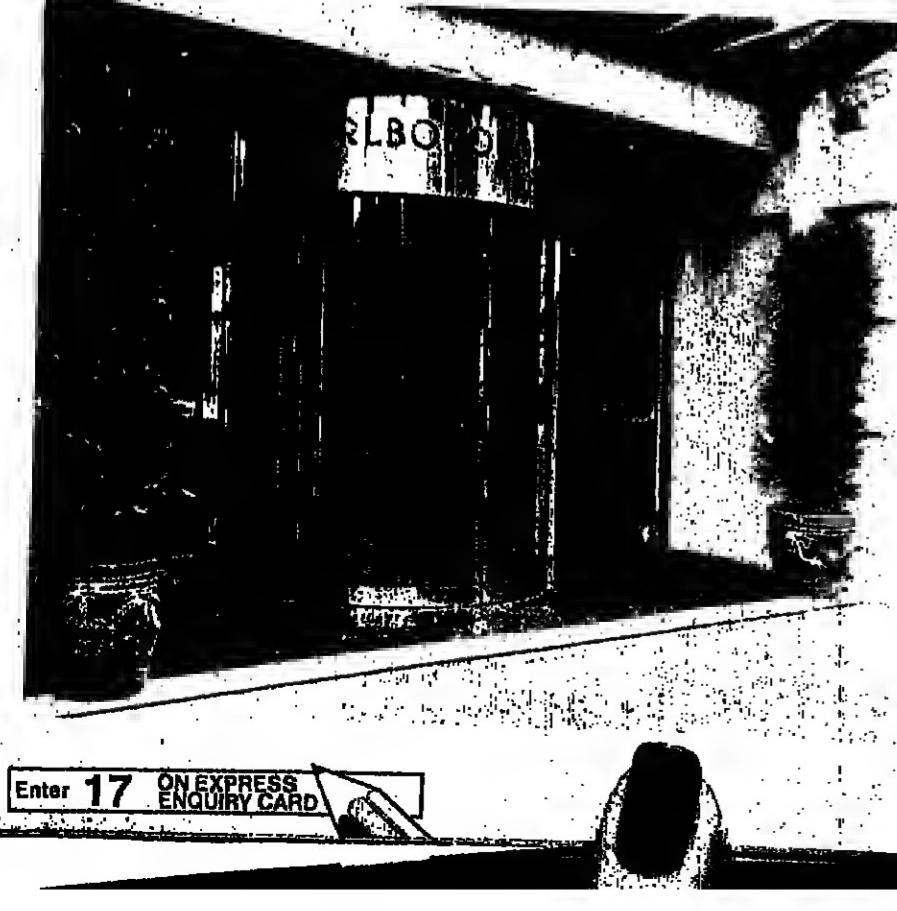
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## New swallow

Denoy & Bryan are architects for Swallow Hotels' new four-star hotel in Waltham Abbey, Essex. The 163-bed complex will cost £5 million to build and is due for completion in early 1988.

Facilities will include a large swimming pool, restaurant, coffee shop, conference and function rooms.

## Triple echo

Work has just started on this £40 million bi-tech, hotel and leisure scheme on three separate sites in Redlog, designed by Scott Brownrigg & Turner for developer Decentro Estates. Shown here is the hotel to be run by the Norfolk Capital Group, whose some 15,000sq m of bi-tech industrial space will be built in two other sites. Quantity surveyors are Borke-Collis & Partners, engineers Bunyan Meyer & Partners.

Consultants' interface.

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## Profile

## Design high-flier still on the right tracks

Jane Priestman is the new design supremo at British Rail. She talks to Tony Aldous.

JANE Priestman, who on November 10 took up the new position of director of architecture, environment and industrial design at British Rail, is not an architect. She continually regrets that fact, she says, but adds that she has worked closely and productively with architects during more than 30 years as a designer.

Priestman's new role is a challenging one — to reconcile BR's corporate identity with a separate identity for each of its constituent and increasingly autonomous businesses. "The identity for each 'profit centre' needs to be consistent with the central identity," she says. For instance, Network South-East's logo and colour scheme have to be distinctive but also fit in with overall BR house style.

But Jane Priestman is, as she puts it, "very much an all-rounder", working also with sculptors and landscape designers. Indeed, the BAA improvement that gives her most pleasure is Darbourne & Darke's landscape work in Heathrow's Central Area, including the bus station. "It's the best work by far at Heathrow. I wish we could carry it further, for all the spaces between the central area buildings — which at Heathrow are very important".

By contrast one thing that makes her grit her teeth is "the generally disgraceful way the public treats its facilities" — litter and worse. But, she adds, "I'm a great believer in raising standards through improving how people behave: by creating responsibility and pride in what you're dealing with".

She has a broader range of responsibility than had, say, Bernard Kaukas as director of environment, and agrees that in the past BR may have suffered from different people and different advisory panels dealing with industrial design, environmental design or architecture. She covers all three.

"The brief is wide open and very exciting."

At the heart of her job, however, is design consistency, and that, she argues, has as much to do with educating staff as with maintaining standards.

Nor is it concerned exclusively — or perhaps even mainly — with new build. At BAA it concerned not just new airports or terminals but needed to be applied at several levels: new projects; "clip-on extras"; and "housekeeping". Her job was to maintain consistency and quality in all three.

At the airports authority, she has enjoyed working with architects YRM on Gatwick's second terminal, which opens in 1988, and with Norman Forster on Stansted, which "will be a very good airport. It was a good brief". She says Heathrow's Terminal 4 has been unfairly criticised, and that those who use it as passengers find it works well.

British Airports Authority has a policy of employing outside architects and designers. "I was the interface with consultants and their aspirations," she says. In that respect, British Rail — with in-house regional architects and their teams handling most of the workload — will be rather different.

Jane Priestman is in some sense an architect manqué. A

scholarship took her to Liverpool College of Art and she started in design on textiles and interiors, working in Australia and then in the design offices of both Heals and Marks & Spencer. "I've always regretted not going into architecture, but right from the start I've worked solidly with architects".

Perhaps Victorian street-scapes are one of the reasons why she lives in Islington; another is that this inner London district is a "mixed society". It will certainly be convenient for her new British Rail job.

Priestman furthers her crusade for design and design management to be treated more seriously in Britain in a variety of ways — lecturing to art college BA and MA students,

judging for the Design Council, and recently as a member of a NEDO committee chaired by James Piditch which aims to bring design and industry closer together. She has recently cut her commitments "because I like to spend some weekends with my family".

Priestman is an agreeable, lively and remarkably young-looking 56. Late, she says, to be changing jobs. "It's interesting that IIR should be taking on someone at my age". It is likely to be an education for both parties; but it will, one suspects, prove even more of an education for many BR managers than for her.



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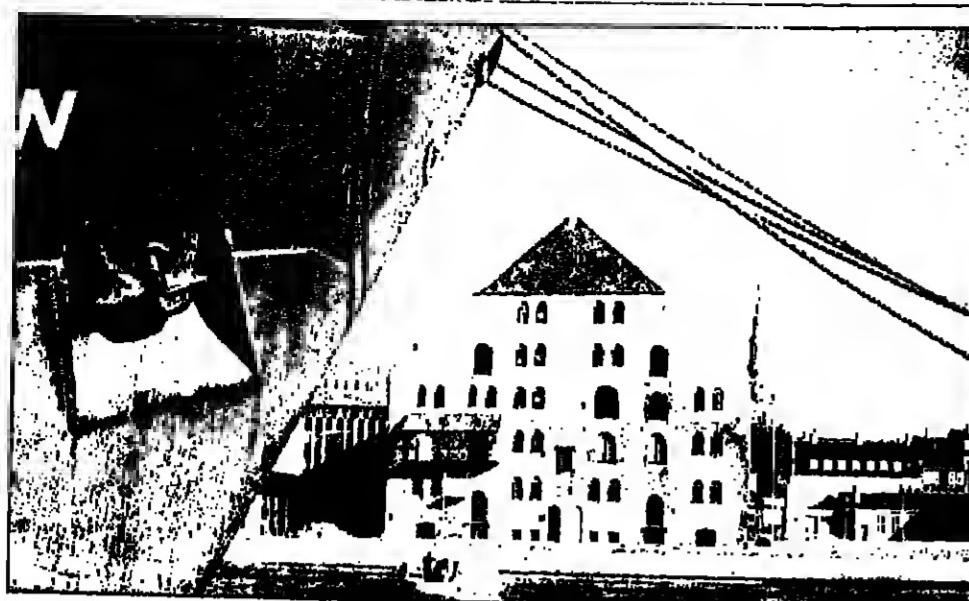
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## Denmark



The exterior of the 19th century warehouse was scarcely altered. The roof was relaid and dormers rebuilt.



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## Designer's showcase

rehabilitation and conversion

work, and the running costs for the first three years. What the government saw in the centre was an international showcase for the Danish construction industry.

The export of Danish design provides much-needed foreign currency; and practical people as they are, the Danes have turned architecture into a real money-spinner abroad.

Henning Larsen's first prize in the international competition for the ministry of foreign affairs in 1983 was bought by the state. It was intended to use the site as part of a new complex for the nearby ministry of foreign affairs.

But external events produced dramatic changes in the impetus of Danish society, and led ultimately to support for an architecture centre.

The oil crisis of 1973-74 told the Danes that their rising standard of living was dangerously conditional on imports of energy and raw materials.

Danish architects had an 'old dream', as Skaarup puts it,

of a centre similar to the ones the

Finns and the other Scandinavians already had. But when they took their plan to the

ministry of housing in 1982 they could not have imagined the response.

Within three weeks the Gammel Dok was made available, along with 42 million krone — around £10 million — for the

of the famous Swedish architect Gunnar Asplund, in 1940. We got the Swedes. At the moment we're working on an exhibition.

Steen Eiler Rasmussen, wrote the London book.

Skaarup believes it is to say how successful this is. But thousands of visitors have taken a walk from the centre of old Copenhagen in Gammel Dok.

They are coming to see what the Danes are doing.

Another level comprises the administrative area, meeting rooms for courses, seminars and conferences, and nurseries are available in the basement.

One floor is given over to the Danish Building Export Council, which plans and co-ordinates all Danish construction activities abroad. But no one should think that the centre is there simply in tourist exports, Skaarup explains.

"We wanted a centre from

where we could work for an understanding of architecture, an understanding of what good design was," he says. "How we can show the Danish people, for example, what is good and what is bad? Next year, for instance, we are going to have an exhibition entitled 'It's Your Choice'."

"It's about what is good and what is bad in architecture and design. We are going to raise one million krone to produce the exhibition."

Skaarup and the centre are also determined that the exchange of international exhibitions will become a feature of Gammel Dok. "Our second exhibition was about the work

THE Danes never tire of letting the rest of the world know how to do things better, especially when it comes to building science.

Of course, it's partly to do with selling more abroad; and for a country with a raging balance of payments crisis, that is no bad thing. What the Danes also want to get across is the fact that they have had some outstandingly successful policies over the last decade.

And the country's pride and joy is the astonishing changes made in the use of energy for heating buildings, both in terms of space and water. Even a statistical presentation makes you sit up and take notice; the figures were enough to send a department of energy officials scurrying off to Copenhagen recently to find out how it is done.

Domestic heating accounts for 28 per cent of Denmark's total energy consumption; that figure is 30 per cent lower than the 1975 level.

Allowing for the increase in heated area, the saving amounts to no less than 47 per cent per sq m.

The achievement has been accomplished through a complex, yet sophisticated energy conservation programme that at the same time encourages good as well as experimental design.

The story really begins in 1973, when Denmark was hit for six by the oil crisis. A country which lived almost entirely off imported oil, Denmark saw its new prosperity disappearing. Grants of about £300 million were made available for energy-saving measures in houses, flats, shops, commercial and industrial buildings during the period 1975-85.

But the real breakthrough came at the end of the 1970s, in February 1979, new building regulations came into force. The Danes believe they are among the strictest in the world.

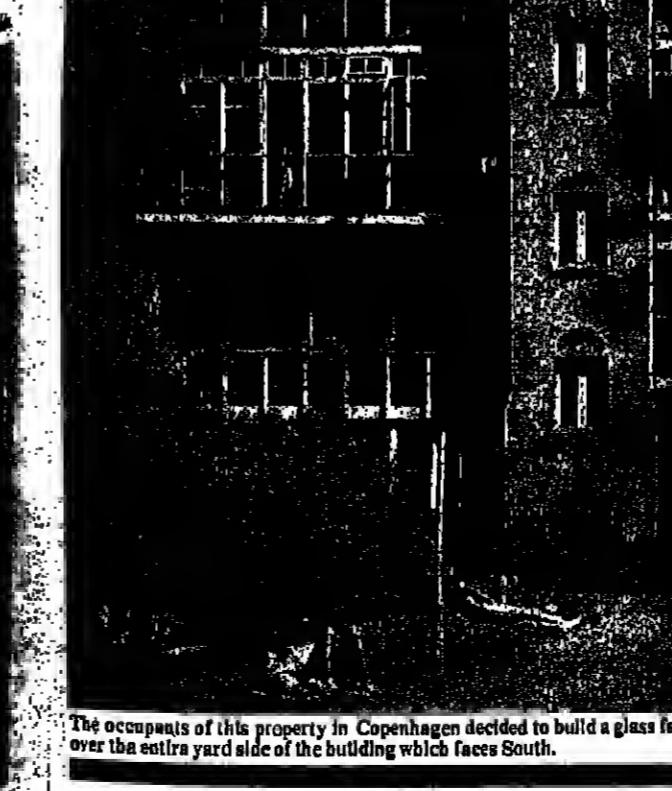
Insulation requirements for new buildings were doubled, and

£150 million has been spent on them in the last four years.

The energy policy has become integrated into urban renewal programmes. Local councils can decide that energy-saving measures shall be carried out in residential properties that are not up to standard. A council can also decide that a block of flats should be connected to the



Superinsulation on this housing estate in Gothenburg designed by Borgo Kjær consumed 60 per cent less energy than normal insulated houses.



The occupants of this property in Copenhagen decided to build a glass facade over the extra yard side of the building which faces south.

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Above and right: most of the floor has been sanded and bleached and the walls are mortar-brushed and painted white.

## Denmark

## Energy efficiency — probably the best

duced windmill technology on a large scale and pioneered other forms of alternative energy.

Last year, the Danes sold 3,000 windmills in America. Danish utilities will install a wind power capacity of 100M W during the next five years. District heating for space and water heating has risen from 30 per cent in 1982 to about 42 per cent in 1984, and now stands at 44 per cent. The massive project is responsible for the few traffic hold-ups in Copenhagen.

Five central local councils have combined to undertake a £200 heating project that involves laying 50 kilometres of tunnels under the city.

It is said to be the most extensive warm water system in the world, and will serve 200,000 homes and 500,000 people.

The town of Ringsted is in fact heated 100 percent by non-fossil fuel. Half the energy is provided by an automobile plant run on surplus straw. It is one of 25 such plants in Denmark. The rest comes from recycling waste.

Paul Feldman

\*A booklet, "Denmark Uses Energy Better", can be obtained free from the Danish Building Agency, Stormsgade 10, DK-1470 Copenhagen K.

Denmark has introduced windmill technology on a wide scale.

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# WYNDY CITY

Edinburgh's Old Town is the subject of a strategic conservation plan. Edwin Johnston reports.

THE architectural identity of Edinburgh's Old Town derives from a combination of its historic buildings, the organic qualities of its medieval street plan — enriched by a pedestrian network of closes and wynds — and above all, the unique topography of its urban setting in which it is juxtaposed across the Waverley valley with the formal discipline of the architecture of the Georgian new town.

Elevated on an elongated ridge, the Royal Mile descends with a gently curving street plan from the castle on its prominent outcrop on the west, and the lofty tenements of the Lawnmarket, to the Palace of Holyroodhouse at the foot of the Canongate to the east.

Embracing two valleys, its historic atmosphere and picturesqueness qualities are enhanced by two further aspects, the varied relationships of bridges with buildings that span outwards to the north and the south, and the delightful views

of the city that range from panoramic prospects to glimpses of the distant townscape seen through a narrow medieval close.

Today, the Old Town fulfills a number of key roles in the life of the city. For example, it is a centre of city and regional government administration, and the law courts. Along its southern boundary are sited the educational institutions: Edinburgh College of Art (West Port); Heriot-Watt University (Grassmarket); Edinburgh University (Chambers Street/Cowgate); and Moray House (Canongate).

But the Old Town is also an important tourist venue within the UK as a whole, and a measure of its expanding role at the heart of the Scottish tourist industry is reflected by the growing number of visitors each year to Edinburgh Castle, with 923,000 paid admissions in 1985. Overlapping with its tourist function, it is also a cultural centre, accommodating 10 museums, 13 galleries, and libraries. And with the provision of 42 venues, and the Fringe

Festival.

But what is the condition of the Old Town today, when perceived not only as a unique historic area, and a focus of tourist interests and festival activities, but also as a living and working organism within the life of the city as a whole?

The findings of the *Old Town Study Report* of 1984, which followed a detailed survey of the Old Town, (sponsored by Edinburgh Architectural Association and Edinburgh District Council, and supported by the Manpower Services Commission under the community programme), present a contemporary picture of the anatomy of the ancient capital.

The report reveals that this century has been one of a continuing decline in housing and industry, with a recent decline in the Old Town as a regional shopping centre. In the past, the inhabitants of the Old Town suffered from acute overcrowding, but for a considerable period the trend has been one of depopulation.

In the mid-19th century, and before the social improvements initiated by Dr Henry Littlejohn, the first medical officer of health for the city, the population was more than 40,000.

By the beginning of this century, however, it was reduced to 23,000. In the census of 1981, the residential population had fallen to its lowest level of 13,142.

The report also found an imbalance within the present social structure of the community. Nowadays, very few families live within the Old Town, almost one third of people are of retirement age, and 22 per cent, including students, live in some form of communal accommodation such as hostels.

The decline over long period in population is also reflected, to some degree, in a gradual erosion of one of the key historic elements that have shaped the texture and grain of the Old Town plan — the medieval close and wynd.

In William Edgar's

View of Edinburgh over castle

map of 1742, 337 closes and wynds opened High Street and the Castle. By 1895, and partly as a consequence of clearance for new Victorian streets produced following the Improvement Acts, the number reduced to 184. Today, 110 closes and wynds survived.

Broadly, the remit of EOTC (funded by Edinburgh District Council and the Historic Buildings Council), is to promote and co-ordinate action for the conservation, social and economic revival of the Old Town. The interests of EOTC extend across a wide spectrum, and are concerned not only with the maintenance of the historic fabric, but equally with the nature of new development proposals.

It makes recommendations

for grants towards the repair

and conservation of the external

and internal fabric of buildings,

and also has an involvement

with planning applications.

EOTC seeks to work in close liaison with local bodies, and six of its members are elected from the Community Forum, which represents 12 Old Town community associations.

If one considers some of the

recent and current develop-

ments taking place in Edin-

burgh's Old Town, then the

picture that emerges would

suggest that the processes of

mending the historic fabric,

the renewal,

and of rebuilding the

community

structure,

are clearly gaining

momentum.

A neighbour of St Giles Cathedral is the restoration of Advocates Close by McMennan & Brown, awarded second prize in the 1986 RICS/The Times conservation competition.

On the eastern side of North

continued page 20

## DIAL FREEFONE GAS FOR THE FUEL OF THE FUTURE.



### HOTEL HEATING

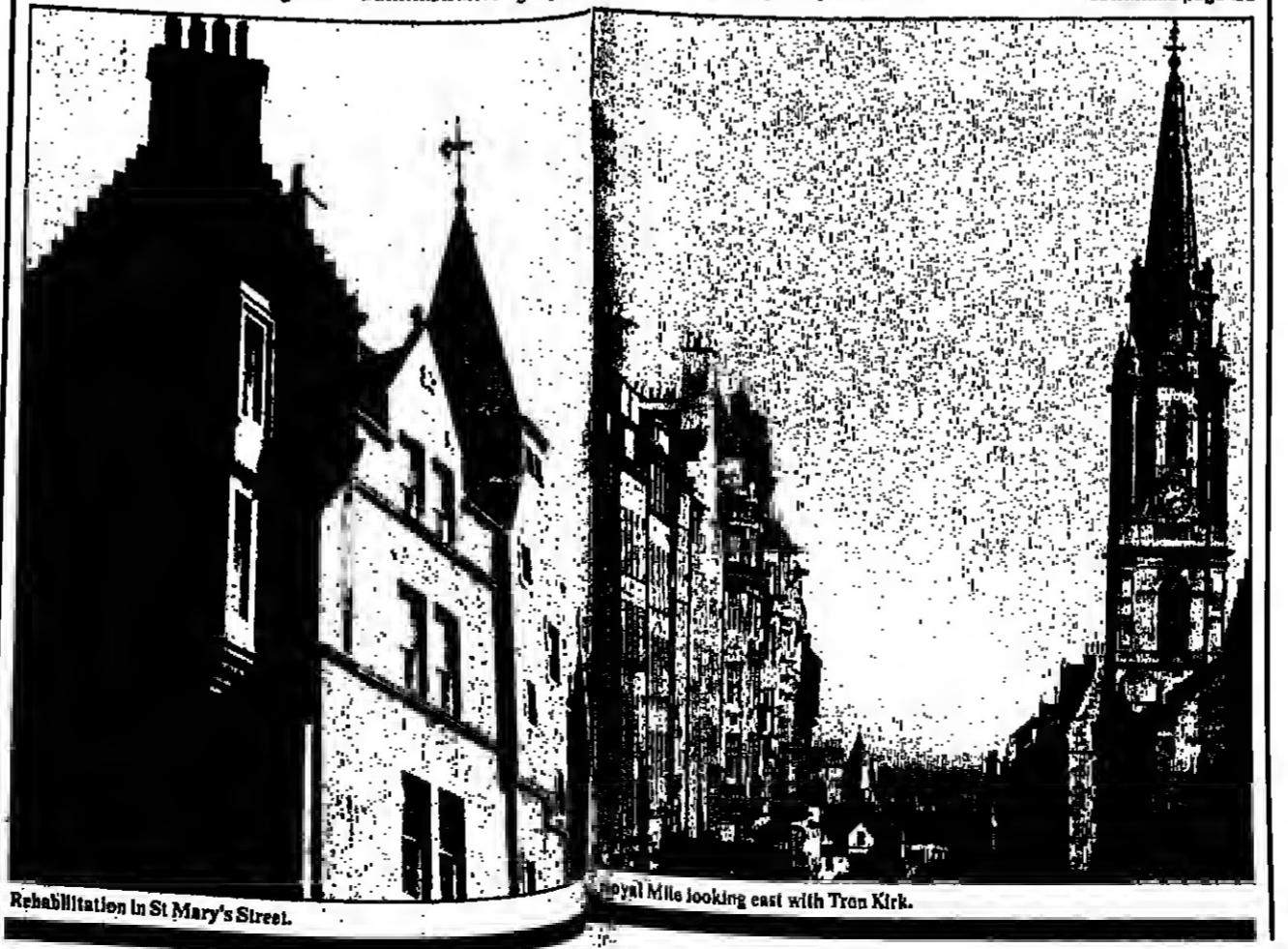
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## Edinburgh

# Wyndy city

from page 19  
Bridge, the Carlton Highland Hotel has been refurbished and expanded to provide 220 bed spaces. And on the west of North Bridge, an existing corner building which returns on the junction of the Royal Mile and Coekburn Street has recently been converted to provide 55 upmarket private flats for sale.

South Bridge, which dates from 1788, is a structure of 19 arches flanked by buildings that back onto Niddry Street and Blair Street, and which take up the fall in ground level from the Royal Mile to the Cowgate. It links the Old Quad of Edinburgh University by Robert Adam in the Northbridge where the vista towards the new town is closed by Adam's domed Register House.

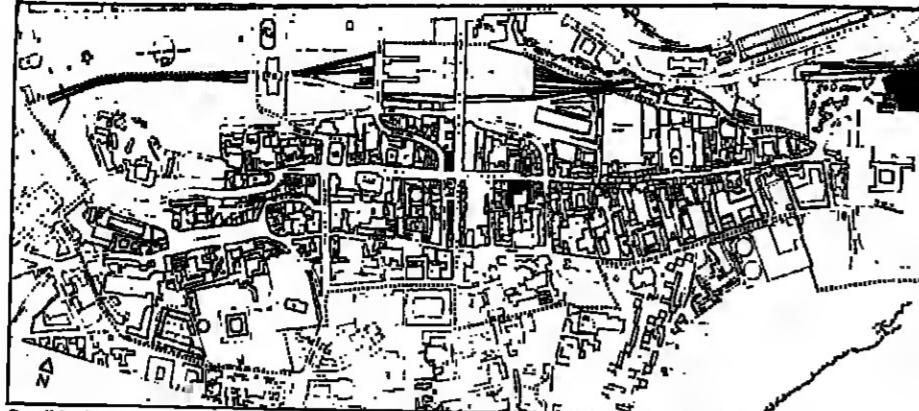
Over the years, the condition of the once elegant 18th century buildings have become much altered and dilapidated, and there has also been a decline in shopping. A preliminary conservation study of South Bridge has recently been completed.

Nearby to the Netherbow, and adjoining the restored traditional buildings of Tweed-

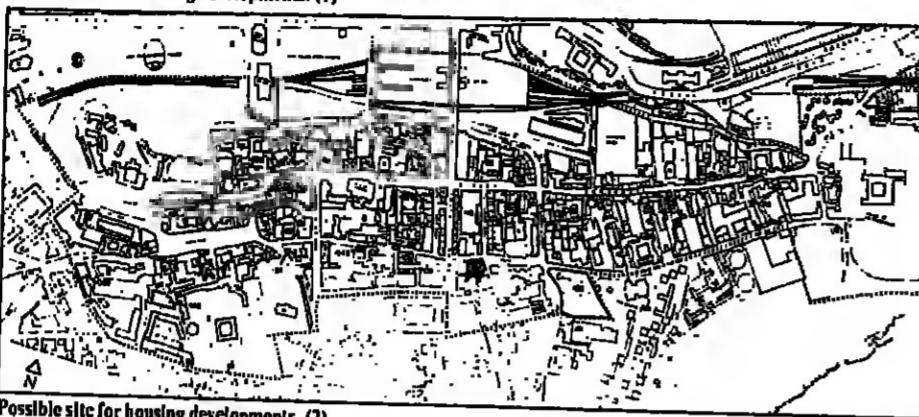
and in the view of Johnson, this elevated street presents an opportunity for a co-ordinated conservation project, in which accommodation, now either vacant or used for storage purposes, might once again be returned to its original function as housing on the upper floor levels. Given the character of the original buildings, such a project would undoubtedly provide a much enhanced entrance to the Old Town from the south.

East of South Bridge, the most prominent gap site of the Royal Mile (0.48 hectares in area) is bounded by Niddry Street and Blackfriars Street. The site is the subject of a planning application for a new mixed development comprising housing (112 flats), car parking, office space (1,588sq m), and shopping, with a proposed pedestrian access via a bridge spanning Niddry Street, and approached from an entrance in South Bridge.

Nearby to the Netherbow, and adjoining the restored traditional buildings of Tweed-



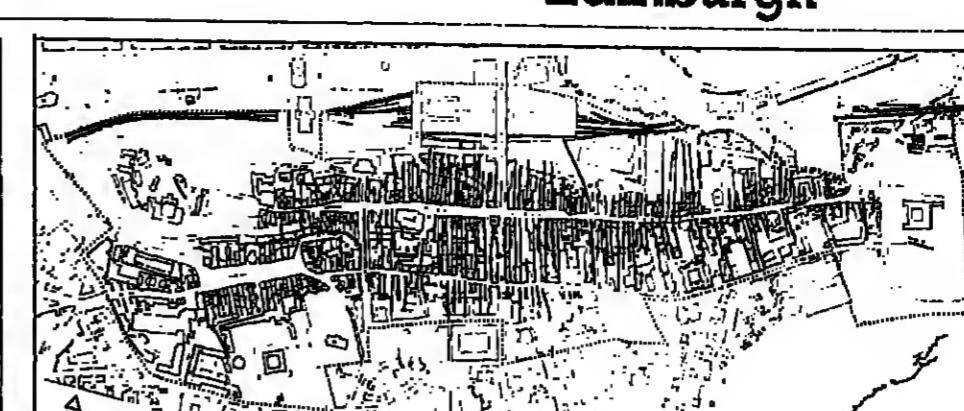
Possible site for housing developments (1)



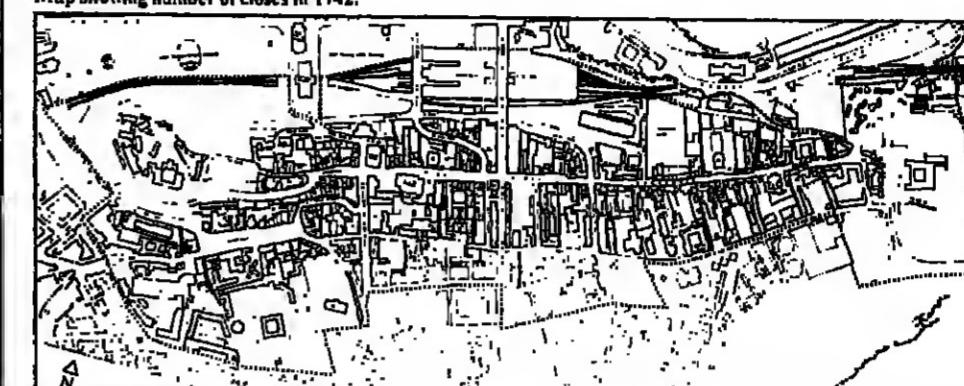
Possible site for housing developments (2)



Restoration of Advocates' Ch



Map showing number of closes in 1742.



Maps showing number of closes in 1984.

## Edinburgh

Court, is a new sheltered housing and rehabilitation development by Wheeler & Sproson for the Castle Rock Housing Association. On the street frontage, which retains an existing stone facade, a new home is provided for the Museum of Childhood together with shop units.

What was formerly an unsightly gap has been transformed by a six-storey building that successfully restores both the scale and continuity of the Royal Mile facade. The rehabilitation of housing in St Mary's Street and Jeffery Street, and the stone cleaning of its Scottish baronial architecture has brought back new life and colour to a street once blighted by road proposals.

South of the street frontage of the Canongate is the Old Town's largest redevelopment site, in proximity to the Palace of Holyroodhouse. It follows the closure of the Holyrood complex of Scottish & Newcastle Breweries, one of the Old Town's traditional industries. Scottish & Newcastle are considering approaches to re-development within the context of the Old Town planning and

conservation strategy, which would provide an opportunity for a mixed development, including a housing component, and perhaps also, where possible, the re-creation of some of the former medieval wynds.

The Cowgate housed in the valley south of the Royal Mile is punctuated by the scale of the arches of George IV Bridge and South Bridge. A busy traffic thoroughfare, it links the open public space of the Grassmarket to Holyrood Road, and contains a number of gap sites, some overshadowed by the heights of adjoining buildings. But here too, there is evidence of the beginnings of renewal, in the restoration of a former Georgian warehouse, with its arched street facade, to provide new premises for the 369 Gallery.

A feasibility study into the provision of visitor reception facilities in Edinburgh Castle by the Boys Jarvis Partnership, and a proposal to provide a new heritage centre in the redundant Tolbooth St John's Church in the Lawnmarket by Heritage Projects of York are two more examples of the trend to bring new life to Edinburgh's Old Town.



View of Niddry Street at the rear of South Bridge.



Sheltered housing development.



Housing infill in Blackfriars Street.



Scottish &amp; Newcastle brewery site.

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## Review

Alan Phillips

AS one of my students pointed out, the title of the show "Foster Rogers Stirling" could have amusing overtones if we think of "Rogering" colloquially.

As Stirling could never Foster Rogers it seems that the only way to prevent a double entendre is to settle for Rogers Foster Stirling. Either way, if not intercourse, there is certainly enough nocturnal masturbation to keep the average punter gawping with amazement.

The show itself does not seem to have been designed at all, but rather put together by the writer of *The Times* obituary column. Indeed on entering Foster's darkened musuem, I was beckoned to his somnambulant requiem by a wailing angel, chanting to an audience of four, reverently seated on a cemetery bench next door to the Hong Kong Headstone.

On fleeing to safety pursued by 3,000 models of the BBC, I fell headlong into a black plastic tank of water, which someone told me was Dr Death's apocalyptic view of the Thirties. Staggering towards a silvery

# THE BIG THREE

**BD** is inviting 200-word reader reviews of the Royal Academy exhibition. Here is the latest batch.

construction at the end, still looking forward to finding "New Architecture", I was amused yet horrified to find the room dedicated to a 1986 remake of a 1953 Eagle comic animation, "Dan Dare meets the Mekons", complete with landing pads and a cast of thousands cheering from the new urban desert of the North Bank.

Architecture indeed! Let's find Mr Stirling—he builds with real stuff and puerco colour on his drawings. But the disappointment continued. You simply cannot make a full-size three-dimensional collage without parodying the original. Indeed if you have to do it at all, do it outside in the courtyard where people can stand back, space can respect the solid and scale can be

reinstated. The "model" could not breathe any more than the stagnant slides (why can't photographers do better), which do nothing to celebrate a very fine building.

Alan Phillips is an architect, teacher and BD columnist.

R W Clayton

THE Hypo continues: the Sigue Sigue Sputniks of the architectural world march from strength to strength. Even on the London Underground we cannot escape train-size graphics; an extension of current architectural overkill.

It's obvious for everyone to see well, anyone who's seen "Blade Runner", "Metropolis", or perhaps the mediocrity of the Queen video for Radio Ga-Ga.

Foster and Rogers have the answers. These architects claim to have people in mind when they design yet they produce such inhositable architecture; it is indeed (revisionary and inventive) but then so was Sant'Elia some 70 years ago. It must seem curious to most that a vision of the future is so inescapably a vision of the past. The fascination with technology is an end in itself—it should not be the basis for an architecture.

The Meccano generation has a lot to answer for. The schemes of both are a reflection of this: a sad state of affairs. Rogers displays callous disregard for the city with the Lloyd's edifice which is clearly a reinforcement of the Modernist notion of building as object. As for the oil refinery on the Thames—I'll

stick with Charing Cross station, thanks very much.

Foster is slick; of that there is no doubt—I simply couldn't be moved to look at the multi-screened Hongkong Bank display. The music was enough to tell most that it was an expensive waste of time. The BBC scheme is more interesting as it displays an inability to get to grips with the essential axiality (or indeed intended axiality) of the Nash masterplan. Urbanistically the scheme should be about closing off Portland Place in a scenographic fashion while at the same time turning the corner—a classic dichotomy which seems to have eluded the great man.

Stirling, on the other hand, is

far more interesting, although

sometimes far too heavy-handed

(particularly with colours;

recommend a course on Corb's use of colour and Mondrian for more primary concerns), he undoubtedly possesses the stuff of architecture. His is a conscious re-engagement with tradition and the nature of the city; this is an architecture of the "Promenade Architecturale" and the particularity of space; the strong figure in plan (in contrast to seas of isotropic space decorated with people, furniture and technology—where is the architecture?); and the undoubted clarity of the concept diagram wins through.

You can't help feeling that each scheme (Staatsgalerie and National Gallery extension) are overworked; too many ideas bordering on the garish in places. If these concepts were refined and made more elegant, instead of cluttered with gimmicks, a finer architecture would result.

The verdict: dej-vu; expensively done; Stirling is worth looking at, the other two should build elsewhere. All in all, the money would have been better spent on expanding the "Forty under Forty" exhibition which showed far more inventiveness and is hopefully more of an indication of what the future holds.

R W Clayton is a Part 3 student at the Polytechnic of the South Bank.

A L Davies

TO mount an exhibition of

sculpture and magnificence

Foster, Rogers, Stirling

force is, to say the least,

remarkable in the current

climate of seeming cynicism

uncertainty surrounding

attitude to the built environment.

Hopefully, those who

have seen it, and those who

haven't, will be stimulated

realising that there are per-

haps around who do care and

are prepared to make considerate statements.

Clearly the split-off

discussion, argument and ful-

some reawakening of interest

in architecture and planning, as

realisation that there are un-

tapped forces of talent and

ability which are able to solve

answer particular problems

can also generate ideas to

create specific answers to

levels of the creative process.

In an age of mass communi-

cation dispensing hundred

material, it surely must be

obvious that if any meaningful

impact is to be made a more

qualitative approach should

be adopted.

To write off an exhibition

such as this as only for the

boys is missing the point.

A L Davies is a partner in J.A.

Davies & Frost, Cardiff.

Christopher Want

"THREE Gods at the Royal

Academy"—such has been the

response of a critic writing in one

of our dailies to the show.

Certainly this is a response

which the organisers at the RA

have done their best to promote.

The introduction to the show

presents the usual (Modernist)

architectural history, from the

ashes of which post-modern

architecture rises phoenix-like

in all its variety and splendour.

Who are some of the finest

exponents of this architecture?

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talent of the three, of course,

who, as the organisers imply,

"can bring excitement and

delight back into our cities".

London, however, has not

been one of the cities which has

really understood the genius

contained within its midst. This

has not been through want of

trying from our triumvirate

Rogers, for instance, (who of the

three is missing the point).

A L Davies is a partner in J.A.

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## Hospitals



Each first-floor room opens onto its own terrace. (Picture: Geoff Beeckman.)



The first-floor sun-room is one of the most popular features at Lambeth.

# DISTRICT NURSING

In her second article on hospital building, Fiona Gorman looks at the emergence of community care centres.

**STREAMLINING** of the modern district general hospital has prompted the growth of community hospitals—in-patient and day care centres which owe a lot to the cottage hospitals of the past.

Smaller Nucleus-type hospitals are not the sole reason for the re-emergence of this building type and, the Department of Health & Social Security would say, not the most important. That is the need for a more humane environment for the treatment of mentally ill, ter-

mally ill, the elderly and all those who require more nursing than clinical care.

But the cost-cutting of district hospitals planned since the oil crisis has meant that some departments in these non-acute areas which were previously catered for have been hived off into smaller satellite units. Some consider these as the "hidden costs" of the quicker, "cheaper" hospitals. The DHSS argues that it makes little economic sense to keep patients in highly technological hospitals where beds are at a premium, when

what they require is intensive nursing care.

Whatever the reasoning, the results are small-scale developments such as the Lambeth Community Care Centre and Whittington Centre, designed by Edward Cullinan Architects, and the Mold and Ystradgynlais community hospitals created by the architects of the Welsh Health Technical Services Organisation.

The Welsh are taking the lead in establishing these purpose-built centres. The reason is geographical: so much of the country is difficult to traverse that a network of smaller scattered units makes the health service more accessible. For the Welsh the catchment area for one hospice may be as much as 50sq miles, while in London it is unlikely to be more than 4 or 5sq miles.

There are only a handful of the hospitals in England and Wales, but it is a trend which the department wishes to encourage. In a health service programme where the aim is to reduce the average hospital stay and to ensure that each patient is

given the degree of care he needs at the right time and in the right place, community care centres fit in.

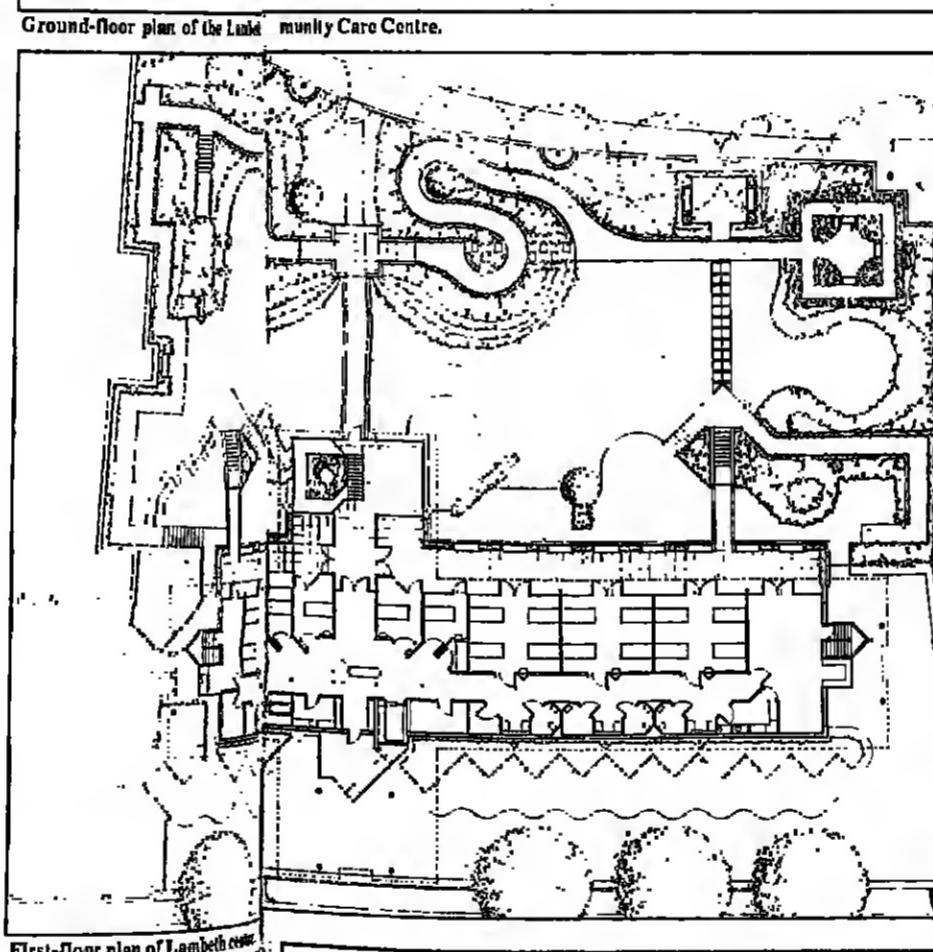
And the range of people catered for in places such as Lambeth and Mold may extend, says the DHSS, to more post-operative patients transferred after a day or two from conventional hospitals to rehabilitation. There is evidence to support the idea that patients who need to convalesce do so more quickly in a care centre than in busy clinical hospitals.

Here patients can be cared for under the supervision of their own doctors, without the rigours of a regimented hospital timetable of visiting hours and meal times. Patients are encouraged to have as great a say in the management of their treatment as possible.

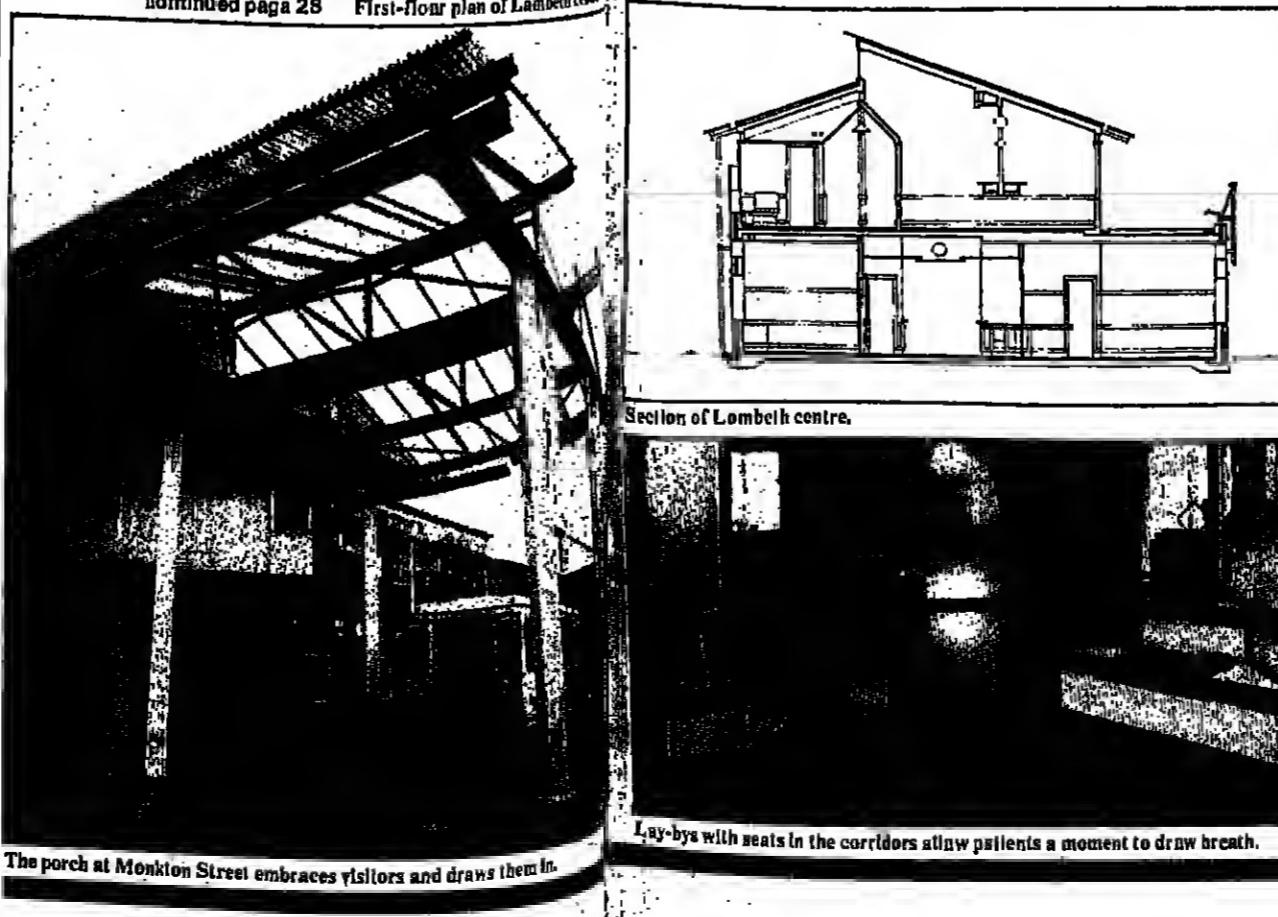
But for all the department's enthusiasm for Lambeth and Mold, community care centres are not an area it gets directly involved in. If the boys at Euston Tower or Alexander Fleming House produced datapacks and guidelines in the same way as for Nucleus it would, says the department, be the death knell of the concept. It has to come from the community.

The catalyst for the Lambeth Community Care Centre was the proposed closure of the Lambeth Hospital in 1979. Both the West Lambeth Community Health Council and the local

continued page 28



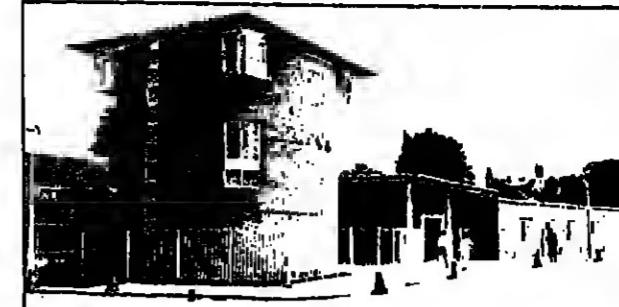
Ground-floor plan of the Lambeth Community Care Centre.



Section of Lambeth centre.

Lay-bys with seats in the corridors allow patients a moment to draw breath.

## Hospitals



The Whittington Centre caretaker works from the top of the tower.



The minimum of doors have been used. (Picture: Geoff Beeckman.)



A glazed corridor surrounds the central courtyard.



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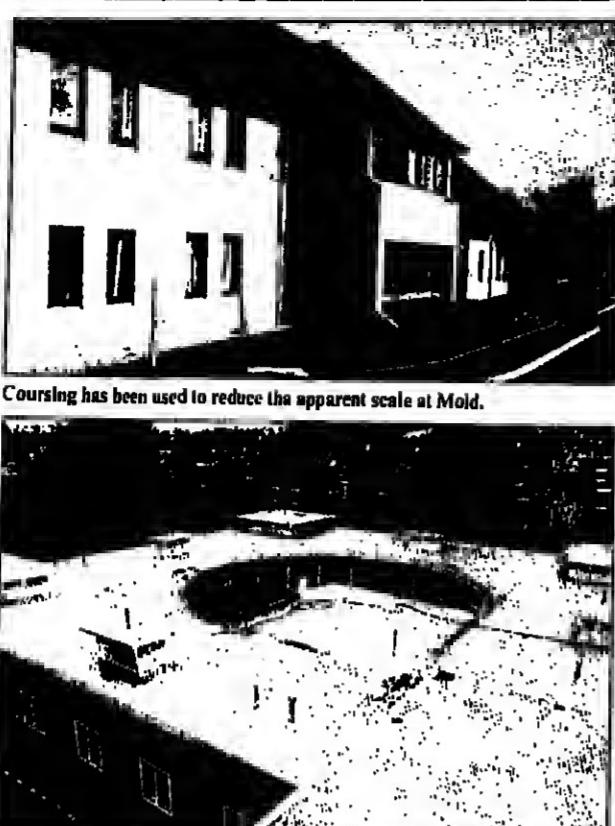
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The porch at Monken Street embraces visitors and draws them in.

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## Hospitals



Massive eaves exude a warm sense of protection at the Whittington.

Whittington Centre seminar and staff rooms fit into the courtyard.

## District nursing

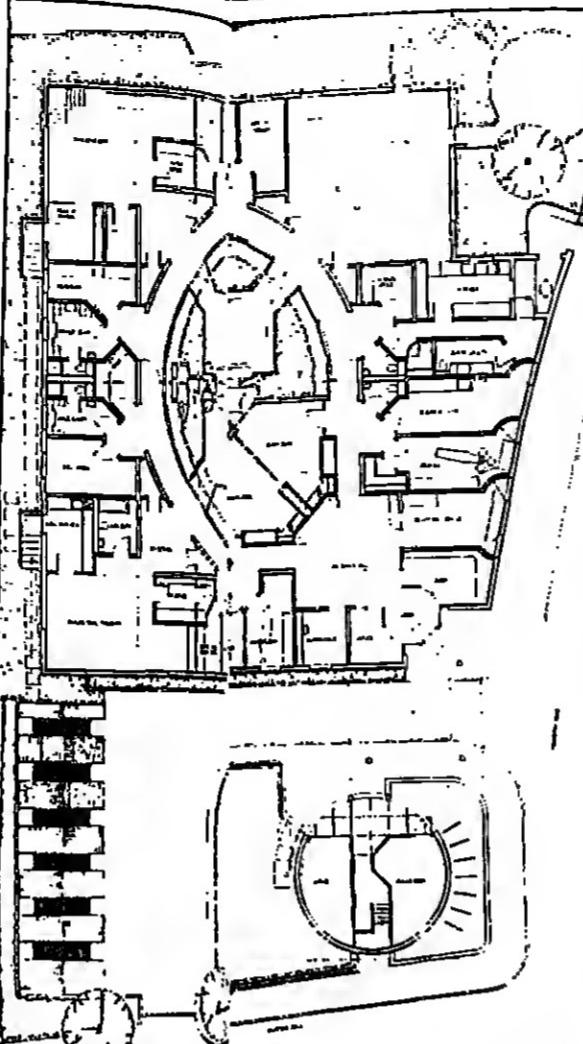
from page 24  
people wanted an alternative — as unlike the "hi-tech" of teaching hospitals as possible.

The centre was built on the site of the old Lambeth Hospital in Monckton Street and designed by Edward Cullinan Architects, who had no previous health building experience. This was unusual in a sector where most commissions go to the same group of experienced architects, but a new approach was required and the practice's reputation is based on that consideration.

The centre was intended to bring together many disciplines of health care — from GPs to voluntary workers, local authority community nurses, therapists and social workers — in an environment which all would enjoy and feel able to work together in. Lambeth wanted a single-storey building but, says architect Robin Nicholson, "We wouldn't build single-storey in Lambeth. It wouldn't work in the street. We weren't prepared to compromise that even for the health service."

The architects undertook a long series of consultations to thrash out the details and to work out the relationship of various departments to one another. Such was their commitment that they submitted about 10 schemes over a two-year design period. The architects rejected the race-track planning principle, because it produces a large number of small rooms and only a few large ones, in favour of a linear solution running along Monckton Street and turning inward to the tranquillity of a garden beyond.

While the scale of the centre is much smaller than a traditional hospital, in form it is far from "domestic". The red and yellow stock bricks of the ground floor give way to dry lightweight materials, steel frame and plasterboard partitions. The



Ground-floor plan of the Whittington Centre.

The architects admit that the building was not cheap — they had to make a pro rata reduction of 20 per cent to satisfy the DHSS quantity surveyor — but cost was never the prime consideration. The centre was, says Nicholson, only designed as a solution to that site and not as a formula and costing which could be applied over and over. "You would never," says Nicholson, "specify yellow eaves as standard, and yet it has been one of the most successful elements."

The attitudes of the local people and patients are not the only evidence of the building's success. Cullinan was asked to design a day centre for the elderly, opened this summer. The Whittington Centre was proposed to maintain the health and rehabilitation of the borough's large elderly population and to keep down the number of people being put into institutions. The centre is jointly funded by the Company of Merchants — through its Whittington charity — and the trustees of St Thomas' and let at a peppercorn rent to the West Lambeth Health Authority.

The site at the junction of the Rutford and Polworth roads was picked for its accessibility and because it was large enough for all the departments to be catered for at ground level. Many of the inter-departmental relationships of the Lambeth centre have been maintained, but the arrangement has developed from a street to a square distorted on the Polworth Road border. The focus of the centre is a tranquil, eye-shaped court with seminar and staff facilities breaking into the circle. A glazed corridor rings this, giving access into each of the therapy and consultation rooms. There are few doors in this £925,000 centre, so people can mingle as much as possible, in keeping with facilities such as a hairdresser's. The architects have also provided quiet, secluded areas for examinations and therapy.

Cullinan has drawn on some of the Monckton Street ideas and toned them down or developed them. The lay-by concept in the corridor where people can pass,

test or converse makes a second appearance. "The architecture of the Whittington Centre," says Nicholson, "is calmer than the Lambeth centre. It is less frenetic, the colour scheme is quieter."

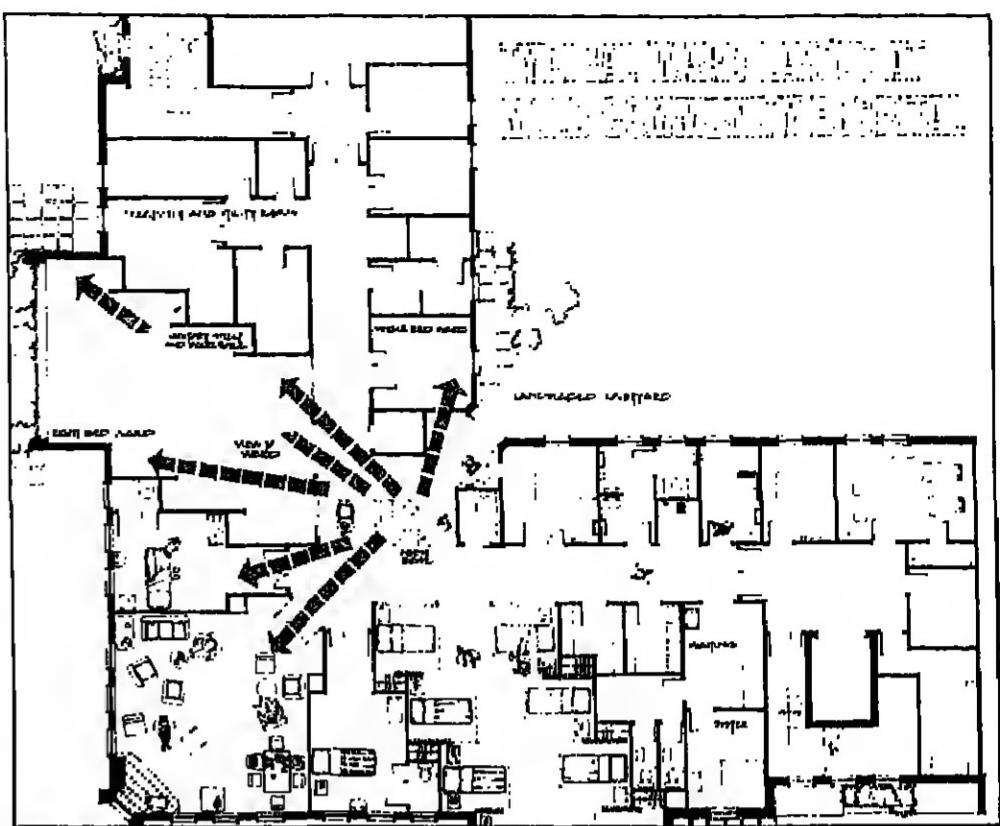
A three-storey "lighthouse" for the caretaker marks the entrance and sets the style for the centre beyond — a stock brick wall with red-brick coursing and a flat roof with extended eaves tending a protective warmth to the development.

The approach of the Welsh health authority architects at Mold differs greatly from Culinan's, but is held in just as high esteem by the DHSS. They strove to provide a building which in scale and appearance would be as reassuring as possible.

The new building lies on a small site in the grounds of the former cottage hospital. The original idea to refurbish this proved uneconomic. A single-storey structure of brick and tile, the Mold Community Hospital is at once unimposing, even inviting. The building is designed around two courtyards, allowing natural light and

*continued page 28*

## Hospitals



Typical ward arrangement at Mold.

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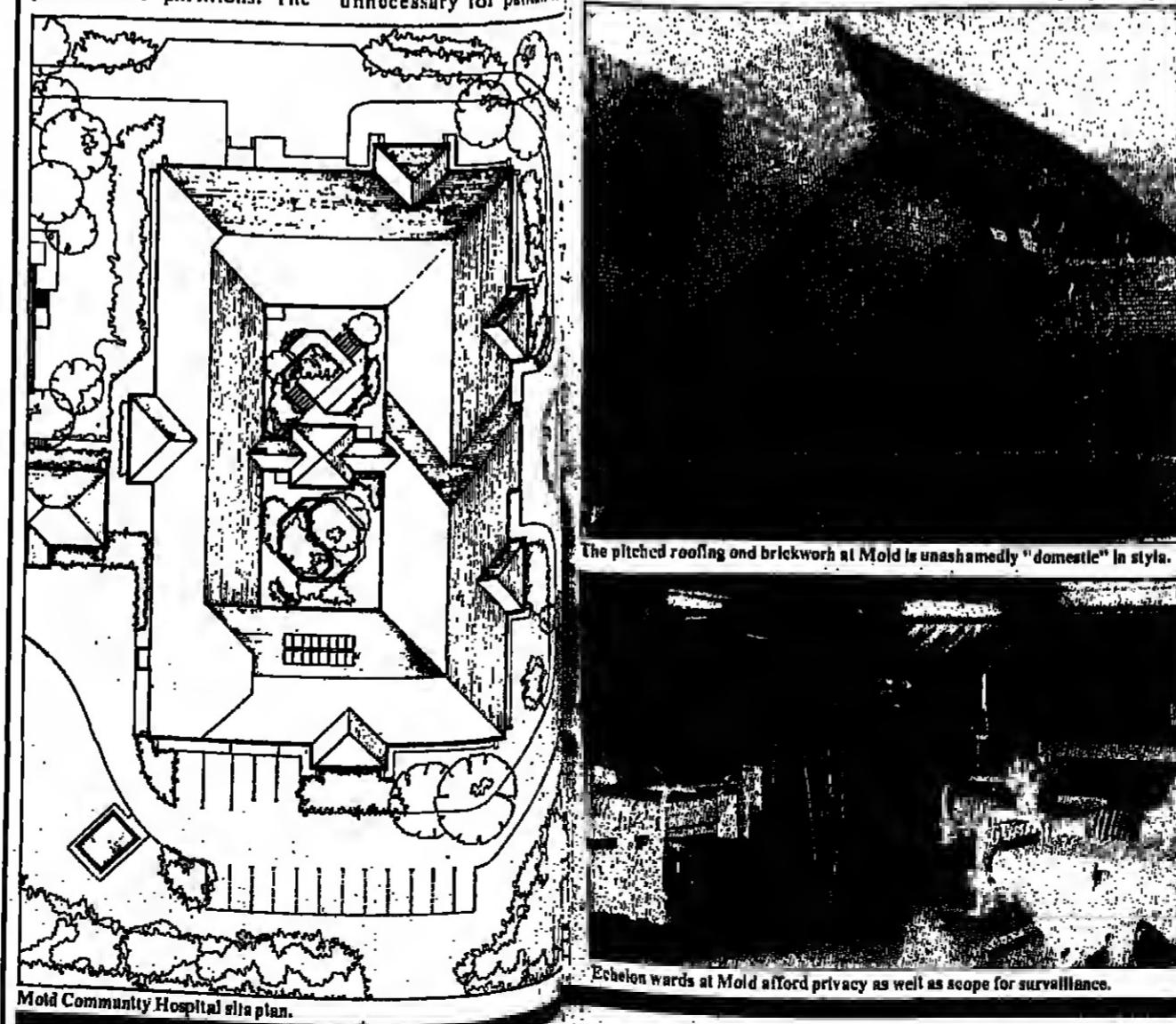
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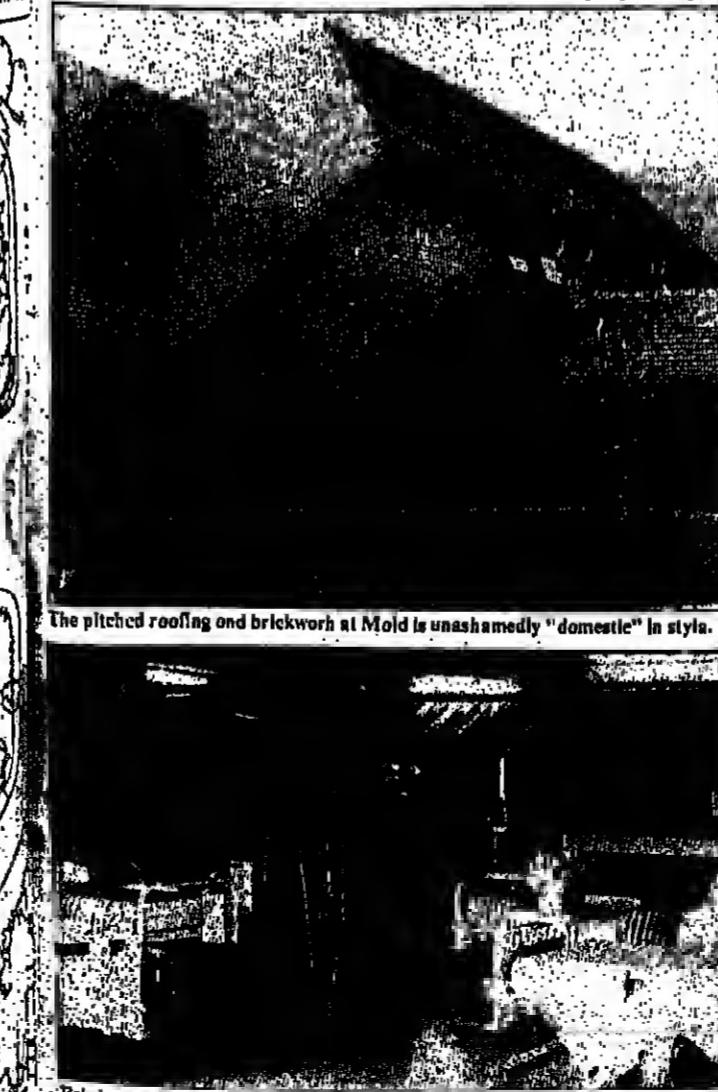


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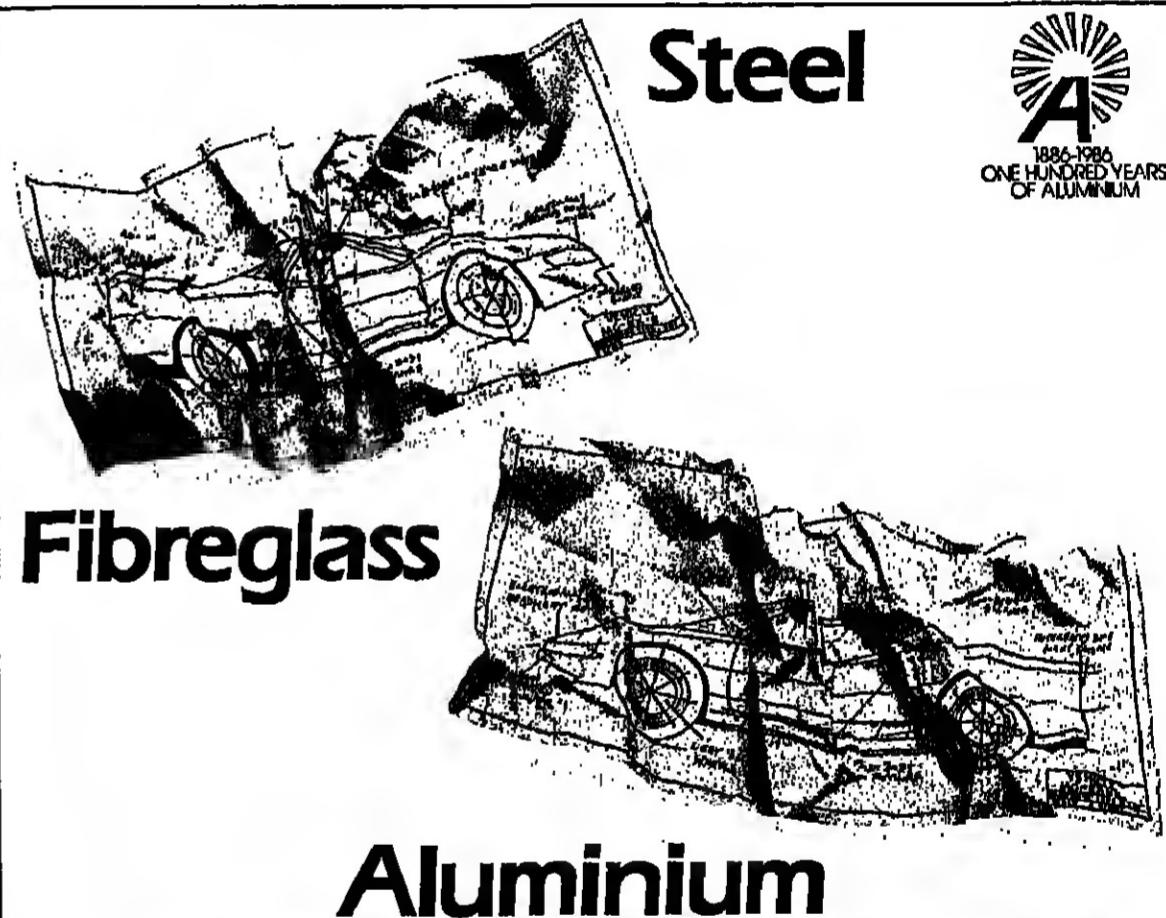


Mold Community Hospital site plan.



The pitched roofing and brickwork at Mold is unashamedly "domestic" in style.

Echelon wards at Mold afford privacy as well as scope for surveillance.



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## Hospitals

### District nursing

from page 27

ventilation to flood in.

The courtyards provide an incentive for patients and visitors to look inwards when the external view is unrewarding. Car parking needs made soft landscaping difficult, so flower-boxes have been incorporated wherever possible and planted areas raked up to sill levels to soften the edges of the development.

The architects were keen to produce something which was obviously of the community. The buff brickwork and red-tiled roofs pick up on the styles of local buildings, and the apparent height of the new building is reduced by the diagonal bonding of the red brick coursing. The bays formed by the splayed buttresses at each corner of the building also seem to knock down its scale.

Inside the timber ceilings, facing brickwork walls, limestone and quarry tiles all contribute to remove the institutional edge for people who would much rather be at home.

The architects' solution was to produce two 20-bed units in

stepped wards of eight beds and four single bed wards clustered round the nurse base. From the console the duty nurses can keep an eye on 16 patients in the echelon wards while they have a side wall as well as the bed head.

Ystradgynlais - low energy consumption. The eaves shade in the summer but solar gain in the winter.

The use of mounds of soil

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building into the landscape

also brought energy costs

The rooms which are used

by patients during the day

are placed facing south

possible, with storeys north.

The five single-story

were specified in the

base of access and mobility

for the elderly. The architect joined them in a bay-shaped court faced by entrance and reception

option of a sixth wing if

room is needed. The design

allows as much natural light

ventilation to be used as

possible.

The hospital serves a catchment area of 16,000 people and is built on the site of an old tin plate works on the banks of the River Tawe. There are 30 consultant beds for the elderly, eight for the elderly mentally ill, 14 for local GPs' patients and a 20-bed day hospital. The architects have shown the same commitment to producing an inviting centre for care and social contact. The hospital is in a busy area of the town and the central community focus of the design allows in-patients, outpatients, visitors and staff to mingle freely.

The site is exposed and the architects have countered this by sinking the building into the slope on the north side which also serves to reduce its apparent scale. The use of large extended

wards wardrobes and cupboards are used to break down areas into more personal spaces.

The £2.8 million centre is

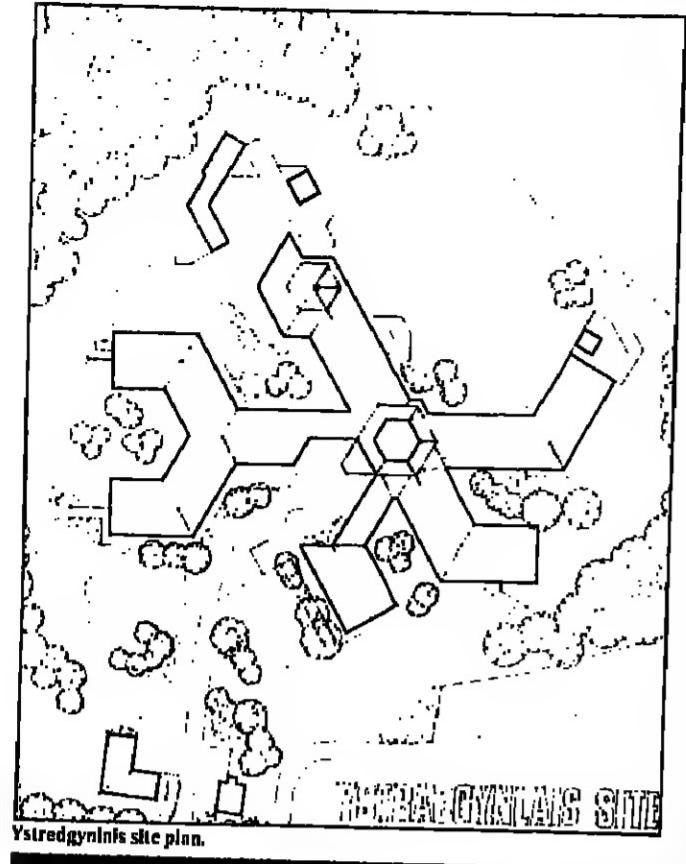
been up and running for more than six months and is popular

with users and staff alike, and

people in need of future

nursing care long term at

nearest district general hospital at Swansea.



Ystradgynlais site plan.

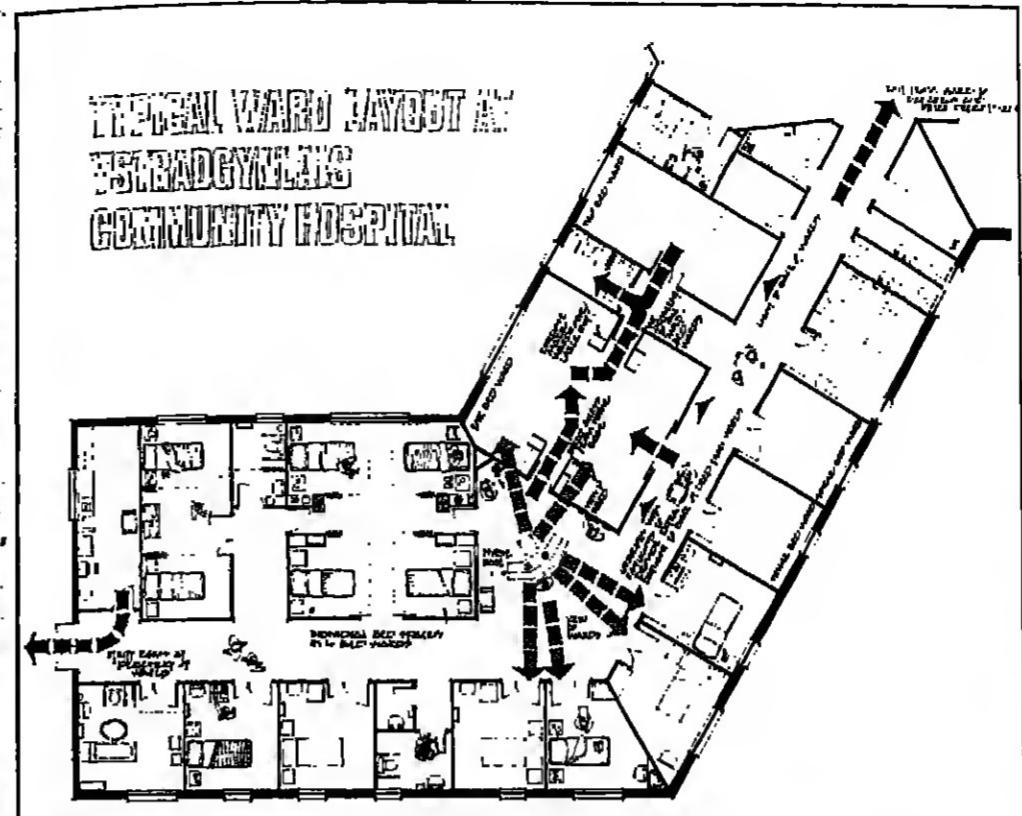
## Hospitals

### The costs behind the building figures

Information held centrally on the 380 schemes in the programme, which totals almost £3,000 million, shows that 54 per cent are at the planning stage, 23 per cent are being designed and 23 per cent are under construction. Information on the 88 schemes currently under construction is set out in the table:

| Year due for completion | Number of schemes | Estimated total cost (building and engineering works and estimated fees and equipment) (£ million) | Hospitals or phases of hospitals | Smaller projects |
|-------------------------|-------------------|--|----------------------------------|------------------|
| 1986                    | 16                | 70   | 5                                | 11               |
| 1987                    | 50                | 289  | 23                               | 27               |
| 1988                    | 21                | 230  | 15                               | 6                |
| 1989                    | —                 | —  | —                                | —                |
| 1990                    | 1                 | 23   | 1                                | —                |

New hospital developments are usually accomplished in phases. Detailed information on the anticipated dates for the start of construction of schemes at the planning and design stages is not held centrally, but it is estimated that about 75 per cent of these schemes will start on site by 1990 and the remainder by 1994."



Typical ward layout at Ystradgynlais.

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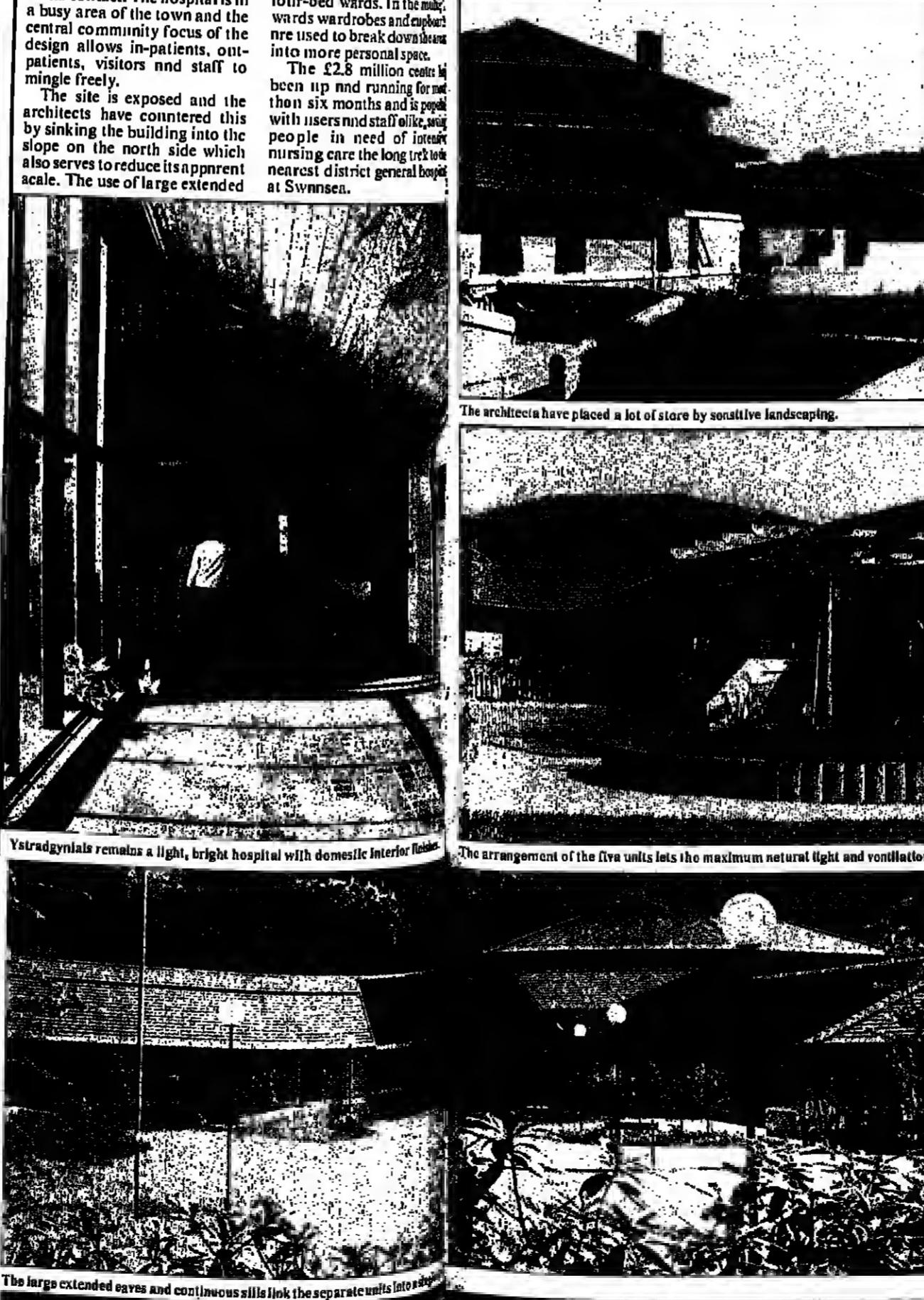
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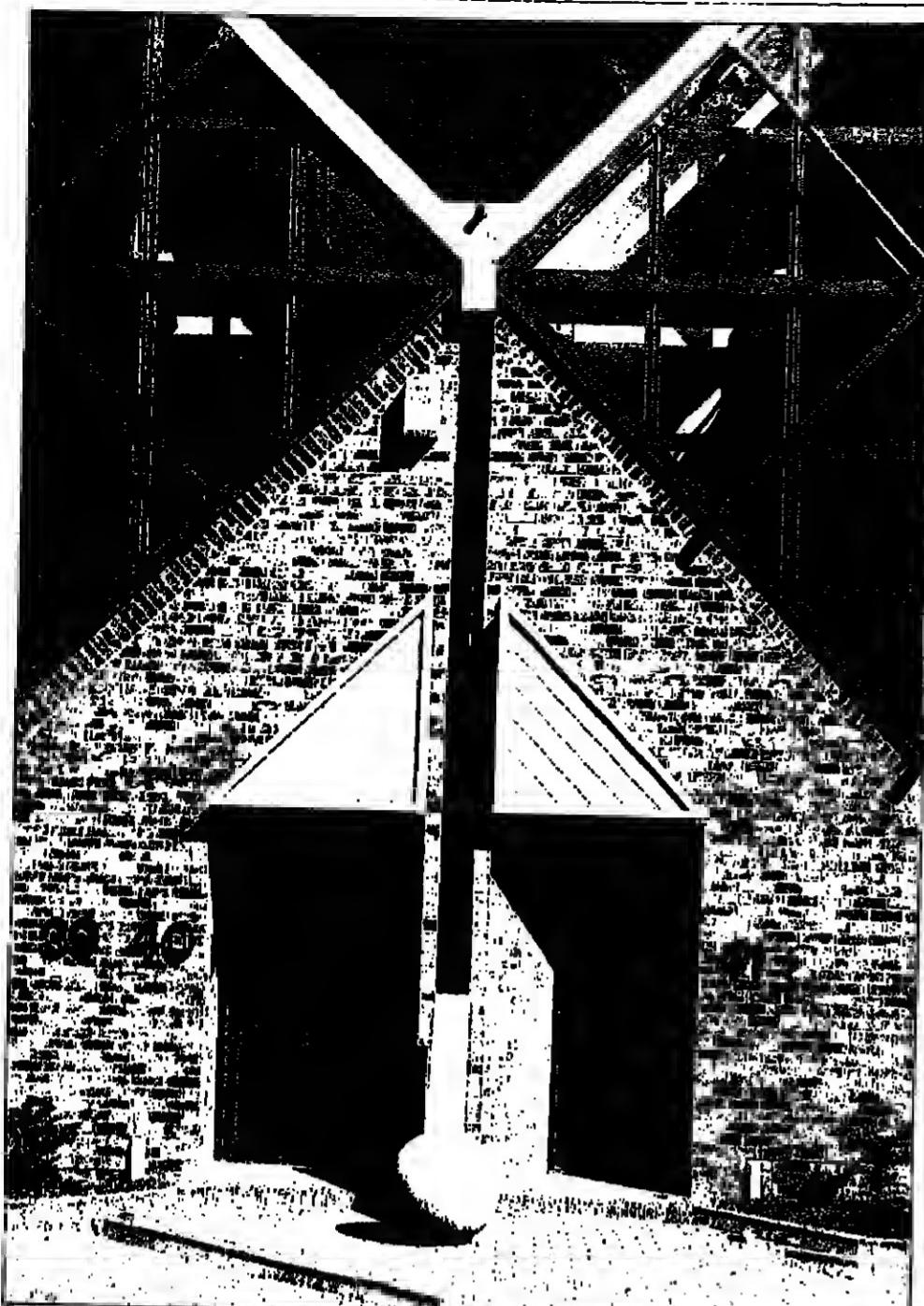
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## Buildings



Each unit has its own identity and the brick coursing marks the junction between materials.

If the development on site 3C of the Docklands enterprise zone is meant to pay homage to the Olsen sheds across the red brick road — about all that was there when development started — then it must surely be deemed a failure.

But architects Hutchinson Partners Libby & Co were determined to create something which rose above that industrial anonymity, stylistically if not physically. And Skylines does hold its own against the vast shipping terminal although it does not match its height. And, with costs per square foot which have more than doubled in less than a year, the developer — John Laing Developments — must consider the project a success. "There are big grins on the faces of the developers," says architect Simon Powell, "the first units were selling in October at £90 per sq ft, now they

are pretty tough on us and gave us a real going over."

The architects came through the scrutiny unscathed, but the developer did not fare so well. The LDDC considered that for the purposes of this development it was not operating from a sound enough financial base. Rather than reject the whole

package, the LDDC tendered the site with Hutchinson Partners Libby & Co's design.

The second approved design was drawn up with the backing of John Laing Developments. The changes were drawn up with the help of LDDC architects Charles Attwood and Ted Hollamby. Partner-in-charge Peter

Wallace recalls this as a time when their relationship with LDDC was at its most productive. "The policy of the LDDC is a much more stringent, but creative process than planning permission seems to be. Years dealing with architects who only tell you 'No, you can't do so and so', but add 'perhaps you could do this instead...'"

On the edge of the enterprise zone, the site is bounded by large-scale Docklands buildings, post-war four- and five-storey council flats and the red-brick road on two sides. The offices lie beside the roads to reinforce the street pattern and are arranged in four discrete blocks to create a

courtyard of a domestic scale. Pedestrian access is available at each corner of the site with one vehicle entrance to the north. There is an ambivalence about this area which allows for creative process than planning permission seems to be. Years dealing with architects who only tell you 'No, you can't do so and so', but add 'perhaps you could do this instead...'"

Although each unit is separate, themes connect the whole scheme. The project responds to the docks environment.

Atmosphere varies as one goes up the building. The number of four-storey units was reduced in the second design. As the units were to be sold for occupation, the architects have taken pains to ensure each is self-contained and has its own identity. Although there are only two generic types, no two units are

wishes to see precisely where his money is going.

"The funding is coming from 37 different sources," says Wallace, "we thought we should talk an architectural language people are familiar with."

The design, "says Wallace, "is a one-off solution to a one-off problem. All industrial buildings have a brick plinth, we just took that a bit further."

The junctions between materials did bring their own problems; each had to be calculated individually since the angles were never the same between the gullies and flushings had to be added to the cladding to refine the unsightly industrial finish. But with demand which outstripped supply as soon as the first units went on the market, the pressure was on to complete and the phased hand-over was cut back. The number of units was reduced from 41 as smaller units were merged to cope with demand for larger offices.

The architects would be the first to admit that the money — £3.8 million — was concentrated on the exterior architecture and the interiors were given only standard finishes, to allow occupiers to stamp their own identities.

The changes are subtle reflected within. One's focus grows from the quiet domesticity of the courtyard at the ground floor to views of the rekindled docks beyond from the galleries above.

The brickwork gives way to red aluminium-framed windows, clustered and stepped, with hubs and spokes to provide windbreaks, and cladding beyond.

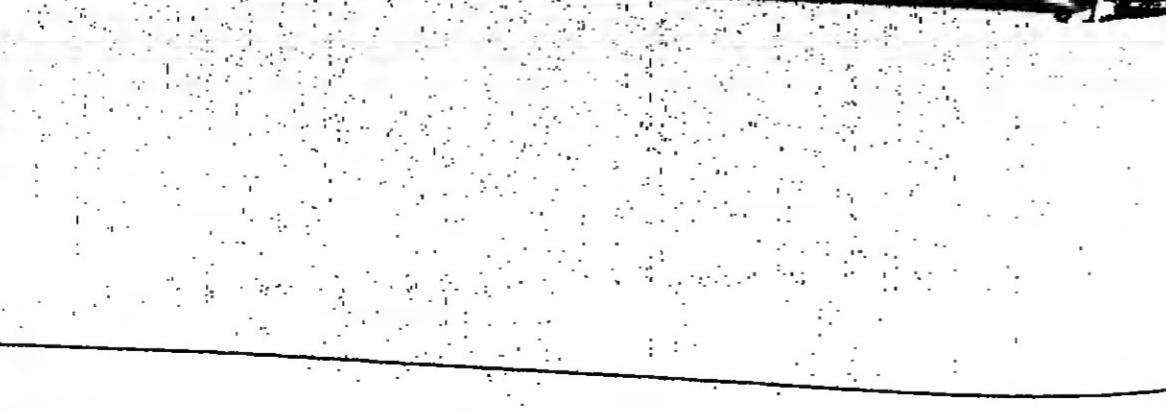
A portfolio of local authority housing projects to inject security and colour ensured the practice felt confident about the combination of bright steelwork and bricks.

Most purchasers have adhered to the principle of buying and occupying, although one has been tempted by flourishing rentals to relet his five units.

Hutchinson and company should never have worried about this.

All the offices were sold within eight months and John Laing Developments is certainly not worrying now.

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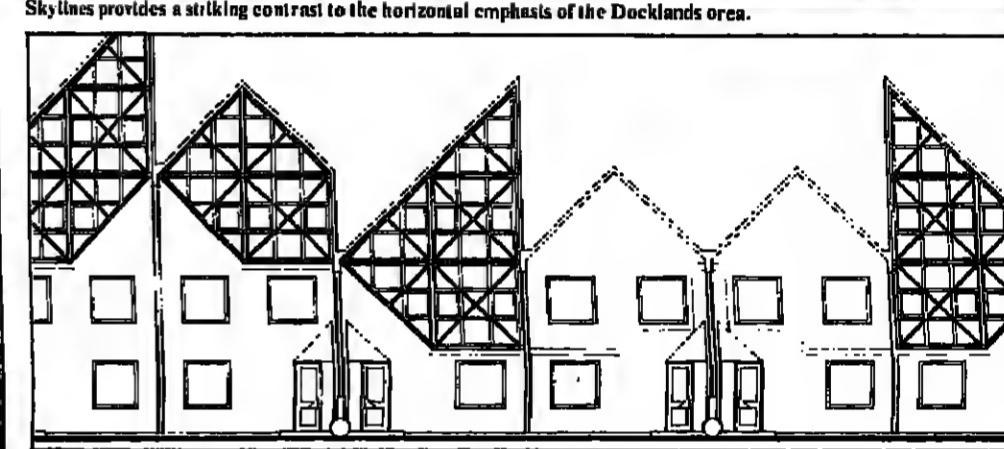
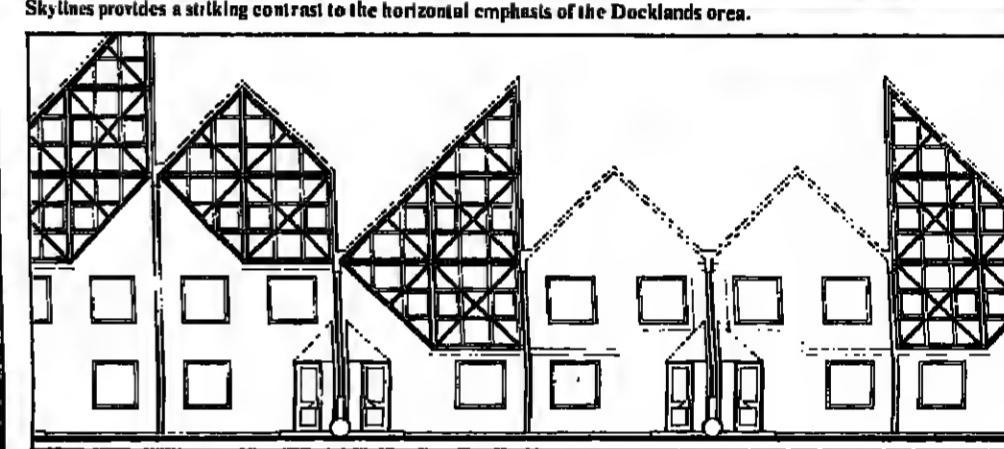
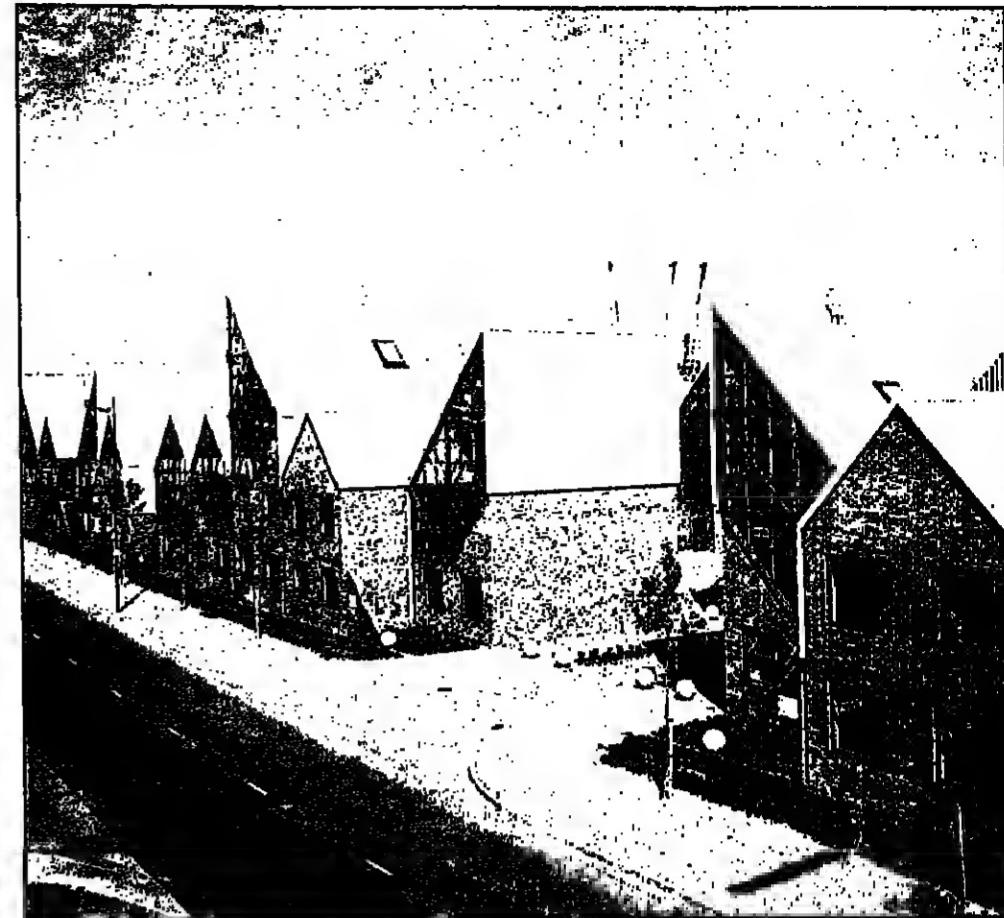
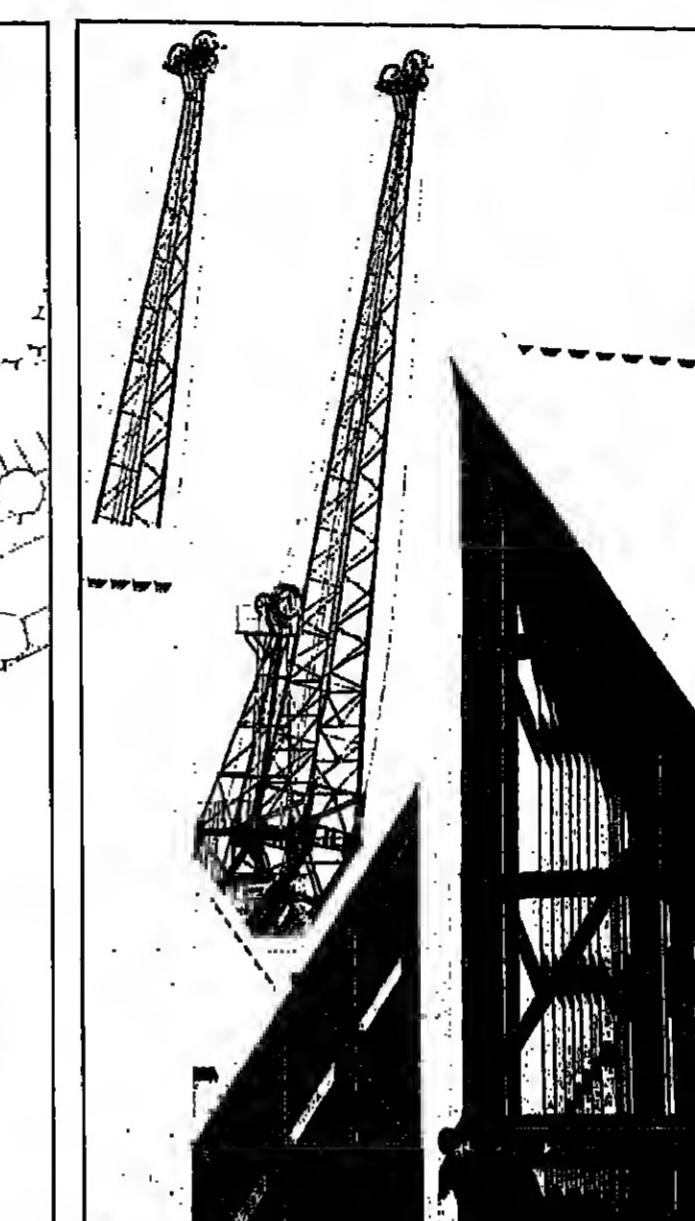
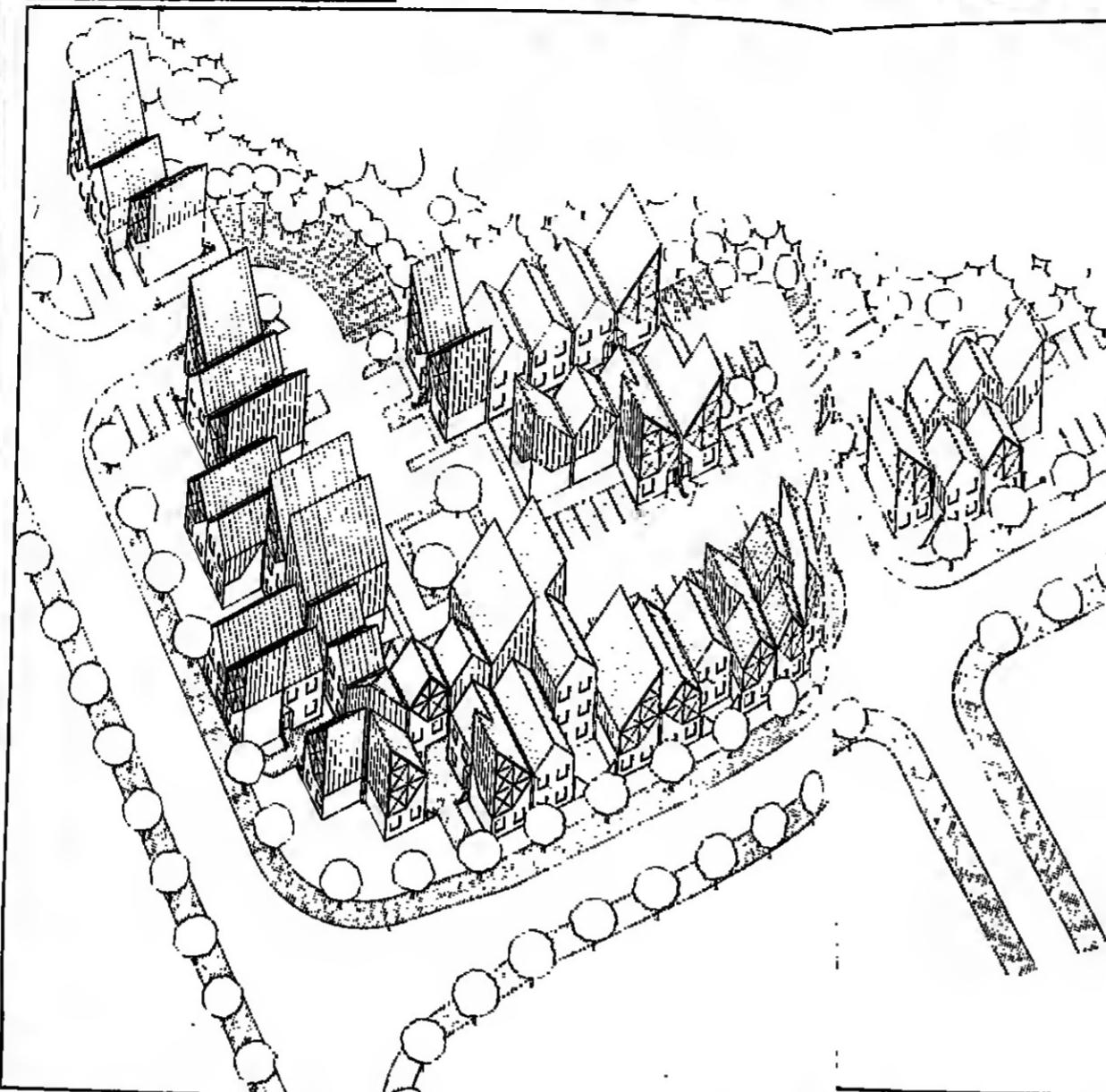
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# SHARP CONTRAST



Although each unit is separate, themes connect the whole scheme.

up all over the place. What is acceptable in an enterprise zone is not necessarily welcomed by planning committees elsewhere.

"The design," says Wallace, "is a one-off solution to a one-off problem. All industrial buildings have a brick plinth, we just took that a bit further."

The junctions between materials did bring their own problems; each had to be calculated individually since the angles were never the same between the gullies and flushings had to be added to the cladding to refine the unsightly industrial finish. But with demand which outstripped supply as soon as the first units went on the market, the pressure was on to complete and the phased hand-over was cut back. The number of units was reduced from 41 as smaller units were merged to cope with demand for larger offices.

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Architects: Hutchinson Partners Libby & Co. Client: John Laing Developments. Quantity surveyors: David Belfield & Everett. Structural engineers: W.A. Fawbush & Partners. Mechanical and electrical engineers: ACDA (Integrated Building Services).

## Sculpture

RAF Fulcher's sculptures possess that sort of eccentric spirit so often described by journalists as "very English". Few contemporary sculptors demonstrate a more explicitly architectural quality in their work.

His installation "Garden Front", enclosing the rear courtyard of Jesmond station, Newcastle, as part of the "Art in the Metro" scheme, possesses more than a hint of the jester's hat about it; it produces much the same effect on this pu-faced sub-Miesian station, figuratively, as a poke in the stomach might have had on Pope Innocent X.

Despite circumstantial involvement with architects at Jesmond, and a more direct collaboration with landscape architects at Liverpool Garden Festival Arena, Fulcher's is a spirit as yet oddly unexploited by the sort of classically-inclined architects in whom, automatically, we might presume an interest. Instead, his recent work has been confined to garden settings, such as the Chelsea Flower Show.

# GARDEN FEATS

**Tim Ostler on the architectural sculptures of Raf Fulcher.**

Before I met him, I'd expected something of an antiquary... aloof, patrician — the artist equivalent of Quinlan Terry, perhaps. Fulcher is in fact a small, gnome-like man, with a tendency to wear a sidelong, irreverent grin. It is his wife Elizabeth Tate — an artist specialising in exquisite equestrian sculptures — who possesses the aristocratic manner. They live, improbably, in a cottage one near Gateshead, overlooking a wide industrial landscape (but just within sight of the sea).

Fulcher arrived at his interest in the picturesque by a rather

roundabout route. Graduating in 1968 from Newcastle University's Department of Fine Art, his first preoccupation was typical of the time ("What was I doing in the 60s dear?" he asks his wife, "I think you were making machines" she replies). But it was the poetic rather than the material aspects of technology in which his interest lay. Intrigued by the ideas behind it, he took part in a reconstruction of Vladimir Tatlin's "Flying Machine", picking up, he says, on Tatlin's perception that "people can fly in aeroplanes, but they haven't actually learned the feeling of flying".

Art about machines has become inextricably associated with Tinguely and his "useless machines". But Fulcher feels that these machines had more to do with the aggression of

technology. What Fulcher was contemplating was, instead, "a quiet sort of engineering". His machines were not intended as self-contained art objects, but as demonstrations of philosophical principles — or attitudes of mind. "The whole wobbly direction in which all that was leading," he says, in his curious turn of phrase, "was towards a vision of a new sociability brought on by non-antagonistic principles". It was the opposite of what he characterises as "percussive" machines, such as

cars.

But before long technology lost its fascination for Fulcher:

"What we were making then wasn't art, and it wasn't anything else. It was just a blind alley". Disillusioned, he stopped working for two or three years. His sculpture, when it returned, came as a direct reaction to his previous work and was the by-product of activities such as gathering, harvesting and aggregating. It usually took the form of primitive objects made out of dead materials and plant debris.

Fulcher's work began to

suggest connotations inherent in Rousseau's "Noble Savage".

Primitivism became juxtaposed with the aristocracy. In a gallery installation appropriately called "County Life", ladies on horses were juxtaposed with vegetation mounted on frames mounted off the floor, and fragments of Chinese pottery.

Fulcher became interested in

a more ordered form of nature,

and thus to the idea of the garden — to a more traditionally English approach to the picturesque. But at the same time this was combined with an ideal Platonist vision of posts and lintels, of the primitive hut — "Adam's House in Paradise".

Between these two approaches to the natural world Fulcher feels there is a "very wobbly" connection (Fulcher's usage of the word *wobbly* denotes an idea which is vague, half-baked, not fully thought-through: but perhaps for that reason still open-ended in its implications).

The result is perhaps whimsical,

but the artist, for his part,

prefers the term "lightness", on

the principle that some of the

strongest ways to say things are

slightly off the cuff.

Fulcher's interest in historical

reconstruction, dating from his

work on

Tatlin,

and his new

interest

in the

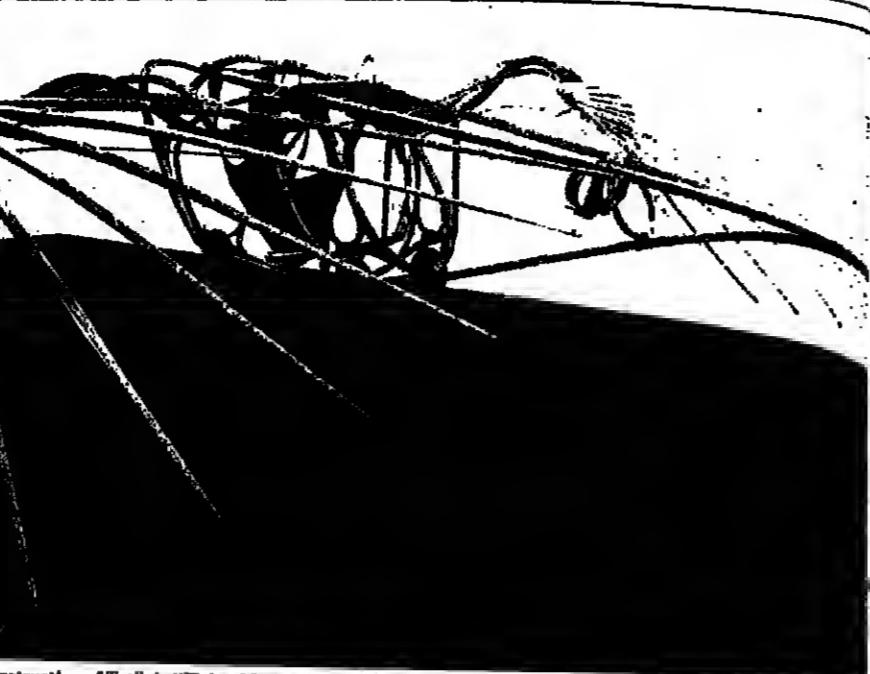
picturesque,

resulted in the V&A giving him a job of constructing replicas for their exhibition of Humphrey Repton's work.

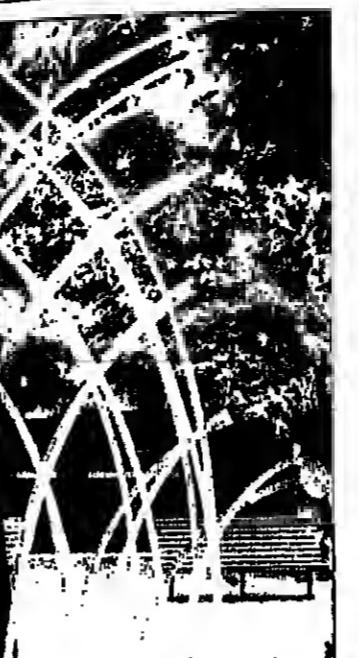
Raf

Fulcher and Elizabeth

Tate are two genuine architectural *nafs*. The clash between the one-a quirky Batty Langley approach to classicism is balanced by the other's more aristocratic manner. There are no architects of this century of whom they are particularly



Reconstruction of Tatlin's "Flying Machine", c.1970.



Fulcher's "Unacceptable Objects".



Overall view of the setting at Chelsea.



In Vauxhall plate-glass silvered with mercury (to give a mirror effect without the reflection). Fulcher feels this to be a valuable way of closing a vista in an enclosed space. The sheets of

glass were edged with lead sheet cut in a zig-zag pattern. Timber, wherever used, was stained in one of two shades of green, giving it an algae-like patina.

In their comments, some visitors focused on the gloomy (Tate prefers the word "contemplative") atmosphere. "It's like a mausoleum, it's Mexican... a garden built by weirdos for weirdos".

But the popular reaction to the display was markedly favourable. This attitude was more than counterbalanced by visitors delighted to see "this sort of thing at Chelsea at last". American visitors, for some reason, seemed particularly sympathetic. The garden won one of the Silver Gill awards.

It must now be fairly widely established that one of the main barriers to collaboration between artists and architects is a lack of common preoccupations. Art and architecture remain divided by a no-man's land. Fulcher, along with his fellow artists Tate, Carter and Boisset, retains an artist's sensitivity to materials. But his work at Newcastle, Liverpool and Chelsea demonstrates that he has already made it more than half way across the barbed wire.

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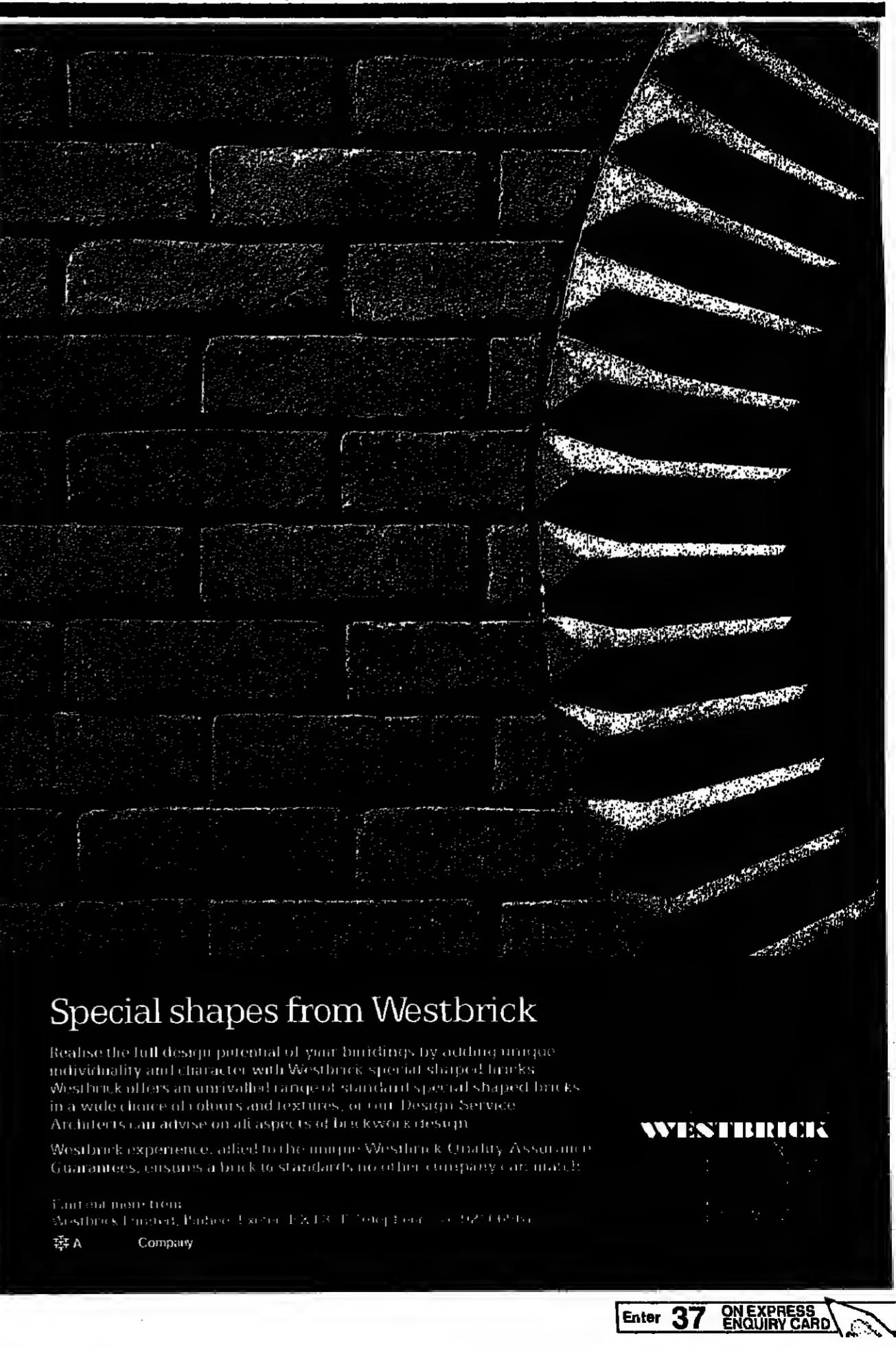
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Detail of the grotto at Chelsea, timber, flat cement blocks and broken glass.



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## Buildings

# The invisible hand

From page 36  
not doubt that Lloyd's have got their insurance policy for the future, and it works.

The rationale of its working is broadly as follows: just as Lloyd's is a conceptual infrastructure, so their building is basically a concrete megastructure, a 12-storey shelving stack designed to carry facilities which have, due to obsolescence and wear, a range of shelf-lives; from short-term (computing), through longer-term (lifts, toilet chambers), to very long-term (the Adam boardroom). In order to enable easy replacement of these components, which comprise a prefabricated kit of parts, Louis Kahn's distinction between "served" and "servant" spaces is intensively and comprehensively developed.

But there is a profound difference between the display of services on the exterior, where their vertical distribution is exuberantly manifested in a display of ducts, cranes, lifts, pods, and articulations, and

their concealment in the interior, where their horizontal distribution across each level uses above ceilings and beneath floors. This endows the interior with a particularly fine realisation of the spaciousness and light, if somewhat lobotomised, serenity typical of international business minimalism.

The unity of the interior space is impressed upon the visitor immediately on entering the Room on the principal floor, which is raised slightly above street level to allow a half-basement to accommodate more public activities and access, with coffee house, restaurant, conference theatre and reception. The Room itself is double-storey height and bounded by a triple-glazed "wall of light" of frosted prisms inspired by Chareau's *Maison de Verre*, and fulfills Corbusier's dream of a "breathing building" by ducting within its layers the air extracted from the interior.

The insulation afforded by these walls, together with the

locations of these towers lend a picturesqueness quality to the building's elevations from the street, but in fact the combination of a rustic, orthogonal interior enveloped in an irregular, medievalised exterior finds its true precedent in those 18th century castellated stately homes, such as Robert Adam's Culzean Castle, which preceded the true picturesqueness movement of free planning in England.

It is these aristocratic mansions, and not the Victorian public realm of Street's Law Courts, to which Rogers has pointed in his talk on Lloyd's, that are the true model here, at least where "Gothic" comparisons are concerned, for the exterior, the "Gothic" comparison (if one is going to make these rather far-fetched parallels) which Rogers implies in speaking of the "cathedral window" of the atrium, is clear: it is with the Perpendicular style, the "Merchants' (businessmen's) Gothic", whose boxy glass chapels spread over England in the 15th century. But to my eyes the historical styles most suggested by the new Lloyd's building are those from

computer-controlled 24-hour environmental regime make the building, it is claimed, 55 per cent more energy efficient than average British offices. One of the principal means of this control is the ceiling grid of "roses" — circular fixtures like inverted saucers that compact into a single point local down-lighters, sprinklers, and air extracts. These roses are among the most finely tuned objects in the building, and atop their virtual "columns" of directed lights, they constitute the nearest thing to an "order" in the design of this building.

Light, coming naturally from the walls and artificially from the ceiling spots, is the principal ornament of the interior because the trading floors have been cleared of structural impediment. Vertical supports are banished to the exterior of the wall, and all stairs, lifts, toilets, vertical ducts, and ancillary conferring rooms removed to six "satellite service towers" outside the periphery of the main space. The dramatic corner

is the chaos of the exterior incorporates an interior of rationality and calm.

The trading-floor of the Room at Lloyd's is no stock market bullring; transactions are carried out in an atmosphere of calm across these benches, which also lend to the Room a faintly ecclesiastical or collegial air. Nevertheless, the boxes are in fact threaded with services distributed through the raised computer floor — via cabling, telephones, power, and individual air-conditioning.

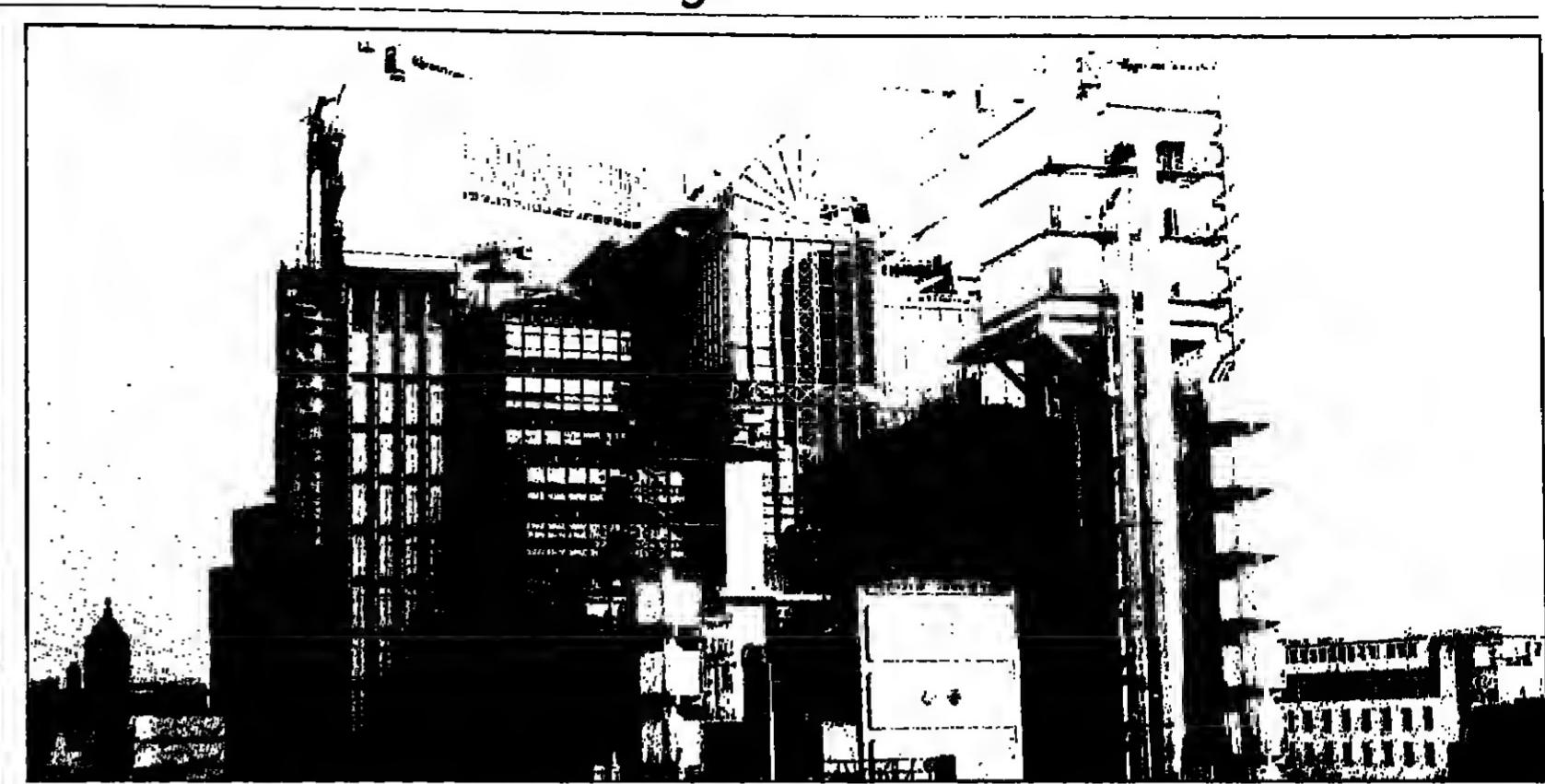
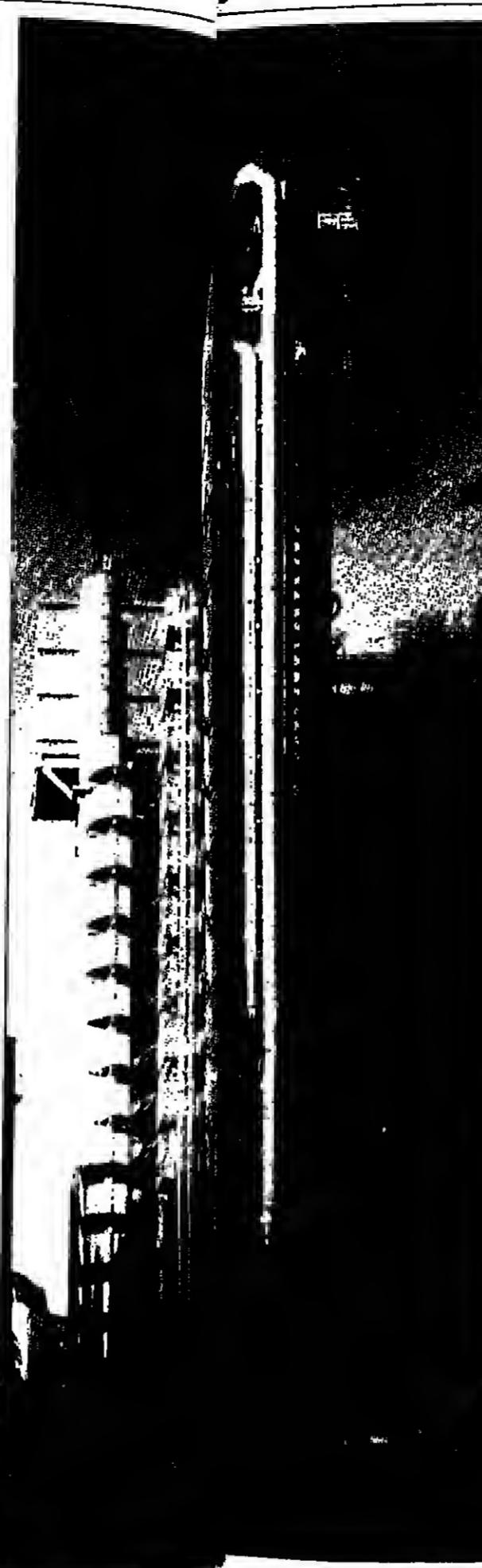
The underwriter sits at his bus works close to his desk, but if he looks up he sees the principal architectural gift of this interior to its occupants — the immense well of light and space of the atrium, which rises past escalators and mezzanines (eventually all 12 floors may be mezzanines). At present the upper levels are filled with subtle office capsules which can be taken out as the market expands) to culminate in a glass barrel-vault 93 metres above the floor of the Room. This atrium is not a private public space of the now common hotel lobby kind, but is the prerequisite of the underwriters themselves, and inspired, surely, like so many other features in this building, by Wright's Larkin offices.

It may be submitted that the great historical model here is the 1851 Crystal Palace. This is true on two counts. First, in respect of using advanced methods of prefabricating lightweight components to create a transparent framework, and secondly, in that here too there is an exhibition of temporary or mobile things within the permanent framework. But the "exhibition" model here is that of goods on sale in a supermarket. And while both Lloyd's and the Crystal Palace echoed ecclesiastical models (the Crystal Palace had a long nave with central transept like an English cathedral) the simplicity and public unity of the Crystal Palace is utterly lost in the mass of exterior servicing at Lloyd's. It is only those on the interior who get to experience its light and space. Upward movement is dramatised and designed to bring to the underwriter's day a brush with the sublime. He can choose to rise through the building by vaulting the atrium on the escalators; or he may go to the service towers and, taking the glass-framed lifts which look out onto the street, contemplate

the age of its founders at the end of the 17th century.

If the interior catches a hint of the four-square lucidity of Wren's City churches, with the mezzanines around the atrium above the principal floor of the Room like the galleries above the side-naves requisite in English churches, then the exterior recapitulates in the image of the machine the gawky, top-heavy and brawny-fingered baroque, all oversize quoins, bandaged rustication, chimney-pots and bulls-eye windows of Hawksmoor and Vanbrugh. Suggestions of this period are encouraged by the reinstatement at the centre of the Room, like a protestant pulpit, of the old Classical rostrum that carries the Lutine bell, which is traditionally rung to announce disasters or great events.

In fact, electronic facilities for communication and data processing are spread integrally and invisibly throughout the building. The point where these surface and manifest themselves tectonically is at each syndicate's workstation, or "box", as it is traditionally known. User-participation in the design at Lloyd's is nowhere more evident (the Committee rooms excepted) than in these "boxes", which at the underwriters' insistence were constructed of hardwood in the traditional format of stiff-backed pews facing each other across a long table.



The chaos of the exterior incorporates an interior of rationality and calm.

when he crashed his car in the *Futurist Manifesto*? No, what we have here would be better termed "The Romance of Capitalism", for it is the market which is being celebrated here in the metaphorical guise of a mechanical naturalism. The market will be made into a spectacle through the metaphor of functionalism, and in doing so will be naturalised. Rogers has incorporated a viewing gallery up in the atrium as part of an effort to involve the public in the building, but the literal activity of the Room itself is unimpressive; insurance is hard to make a spectacle of, and underwriting is a field where "no news is good news". But the building can be a figure of rhetoric understood by all.

The idea of the imitation of nature was central to the development of the design philosophy of functionalism. At the time when the theory of the market was being developed by Adam Smith and others, with its sense of the market as a kind of providential natural deity manifested in the acif-acting and homeostatic forces of supply and demand, the category of the picturesque was being developed in secession. It is this category which is invoked in the assimilation of the exterior of this building to the discourse of architecture. The picturesque enabled selected aspects of "nature in the raw" to be viewed as moral representations. This was the outlook of the occupant of the Classical rooms at Cuzen Castle as he looked out past his "natural architecture" of battlements to the spectacle of the elemental forces of nature upon the ocean.

Today at Lloyd's "nature" is identified with the unfettered and perfectly serviced operations of an idealised market, but its "invisible hand" (to use Adam Smith's famous phrase) is given a metaphorical representation in the amplified display of the "raw nature" of the mechanical functions engaged in maintaining the environmental homeostasis of its housing. At Lloyd's, the entire spectacle of an idealised capitalist city, with its endless process and limitless exchange, is identified with the elemental energies of nature and compressed into a sublime and dazzling rhetorical figure, in which the power of nature and the nature of power are mystifyingly scrambled and deployed as ideological propaganda. But it is not the machine as such which is offered here as ideological nature, it is the market itself.

On page 38



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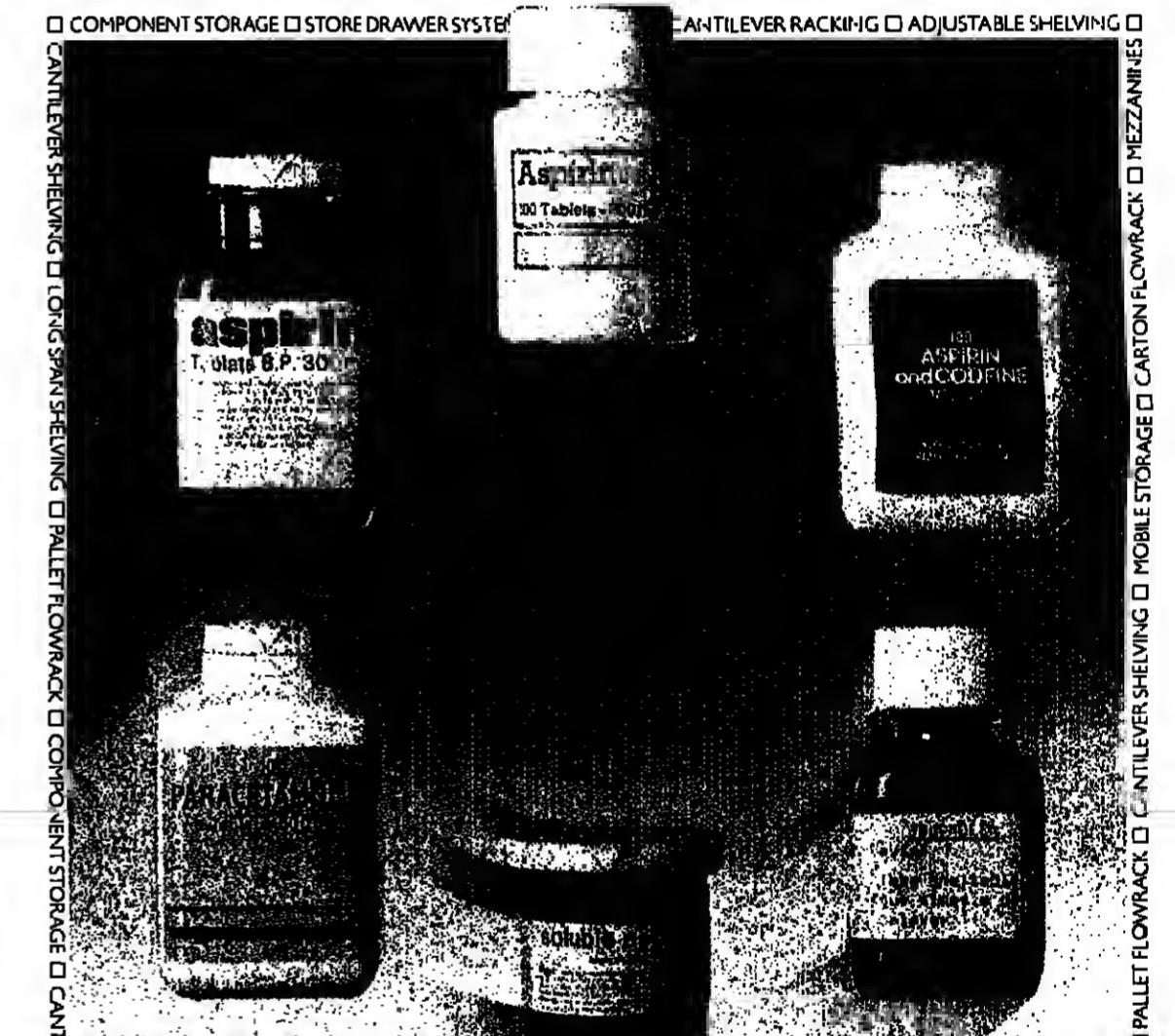
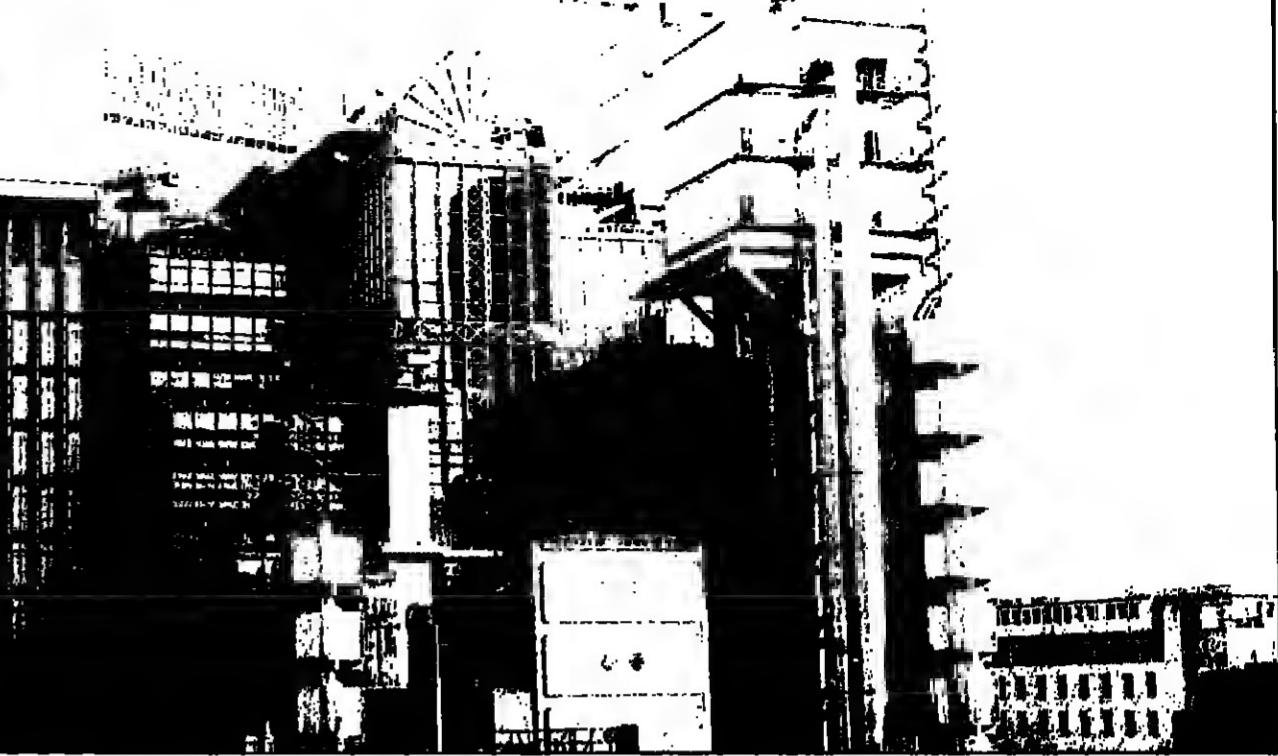
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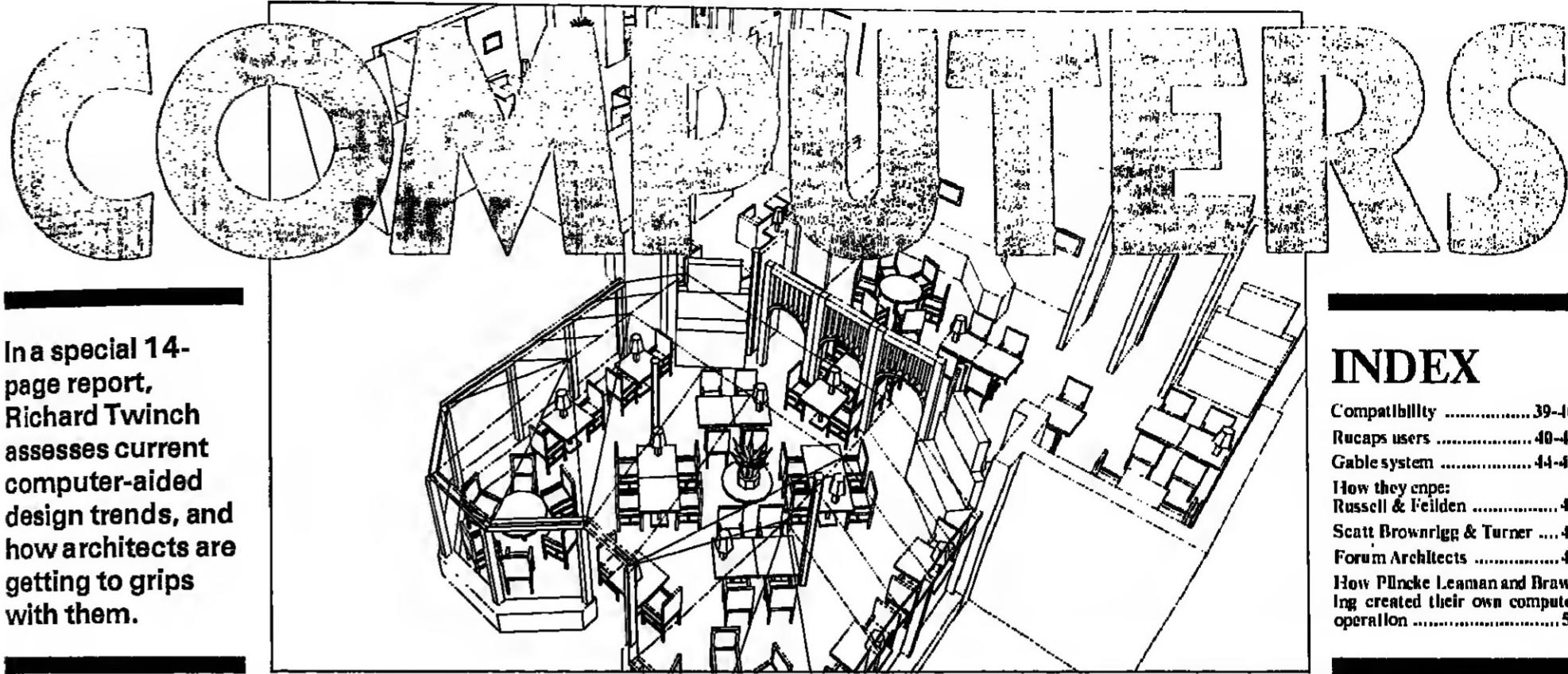
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assesses current  
computer-aided  
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how architects are  
getting to grips  
with them.



## Survey

## Getting it together

PERHAPS the major preoccupation of many people already using CAD, as well as those still drawing up courage to enter the field, is how to ensure compatibility with other systems used by other professionals.

There are those who claim the only way to achieve stability is by sticking to one operating system and one hardware standard. In this there are at least two major schools of thought:

- IBM compatibility is all.
- UNIX is the operating system to use, linked to hardware that compiled with certain international standards.

There are strong reasons to support these views of compatibility, not least vested interest, but they do suffer from historical and practical drawbacks.

Hardware is unlikely to fix down to a standard, since technology is moving so fast. Any standard configuration is outdated almost as soon as it is standardised (or before) by the arrival of a new chip or the development of a new process to make components faster and cheaper. Many early CAD systems relied heavily on Tektronix compatibility as standard, a compatibility that vanished overnight when the hardware was discontinued, leaving many high-end users uncertain if it is uncertain whether IBM will continue to propound its own PC standardisation, which has led to erosion of its profit margins.

Operating systems are largely for the convenience of the programmer. UNIX is certainly a very powerful one, MS DOS (as in IBM PC) most widely used. Others (and variants of others) will doubtless follow. Many now recognise that it is the user interface (ie how the user interacts with the software through a keyboard/mouse etc) that is more important to the user than the operating system itself, whose inner workings are best kept hidden if they are not to confuse. The system that has done most to revolutionise this way of thinking is the Apple Macintosh, which is a delight to use, and which has an operating system all of its own.

Beyond the dichotomy of

hardware and operating systems there are those who view compatibility of data interchange as being the essential feature of current and future CAD systems, a view which I share, and this article describes how several different organisations are addressing this problem.

### D'Arcy Race

To understand D'Arcy Race Limited's approach to translators it is helpful to give some background information on the organisation, which was set up seven years ago by Dick D'Arcy and Steve Race, both architects who had worked on developing the use of CAD in hospital design for the Oxfordshire Regional Health Authority.

The authority provided the major impetus to the development of BDS (Building Design System), through to GDS (General Drafting System), by then Applied Research of Cambridge (ARC), which has since been taken over by McDonnell Douglas corporation of America (a fact much mourned by D'Arcy).

D'Arcy Race was established initially as a drafting bureau. The co-directors were aware that they had the requisite knowledge of CAD which could provide an entry into large-scale architectural design work. Naturally enough they turned to ARC to provide the CAD system which was implemented on a then state-of-the-art PRIME computer.

D'Arcy Race have been successful in surviving and establishing an international reputation for themselves as a drafting bureau and as consultants, so much so that between Christmas and April this year, the Fitzroy Robinson Partnership bought them up in toto, and moved them into their offices in Portland Place. This seems to be beneficial to all parties, taking place overnight in business terms (three months).

The Fitzroy Robinson Partnership have acquired the technological expertise they needed. D'Arcy has gone on to research in America, and Race continues as managing director. D'Arcy Race Ltd is still continuing to practice as an inde-

pendent company, continuing to

Today, the designer of the Leaning Tower of Pisa would probably end up in prison rather than in the history books. And all for the sake of a breakdown in communications between architect and engineer.

Thankfully today, technology is available to prevent this happening, whilst simultaneously saving time and increasing profitability. It's a CAD system called GDS.

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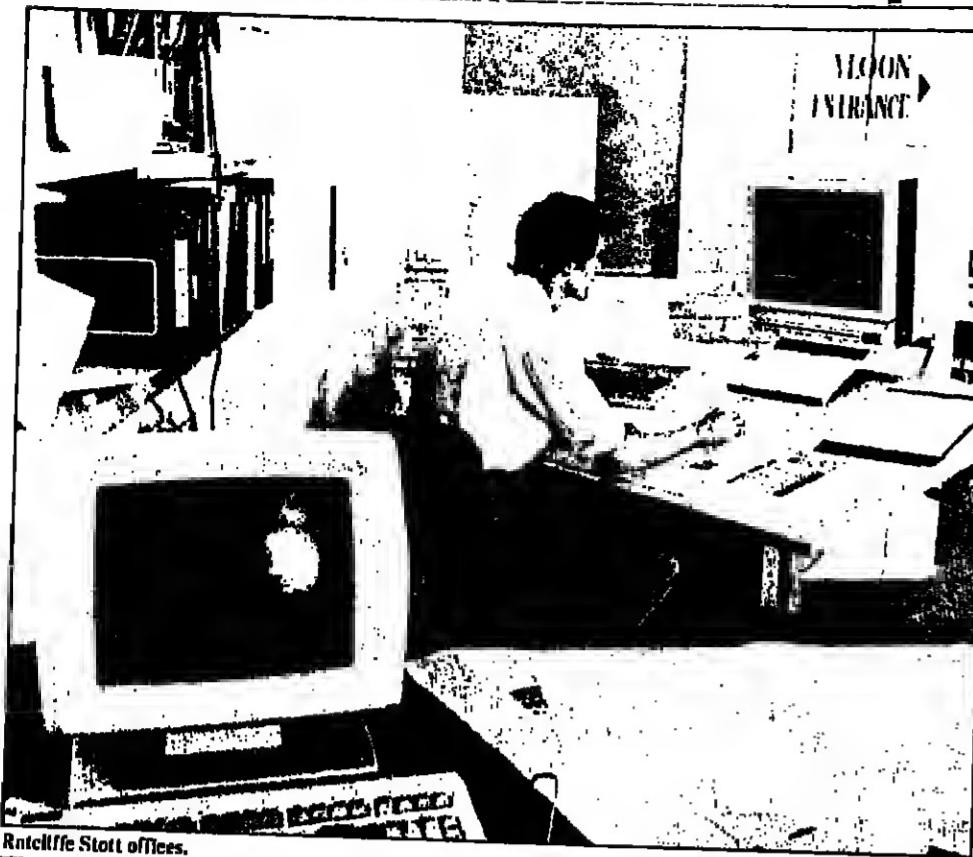
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Ratcliffe Stott offices.

### Ratcliffe Stott Associates

RATCLIFFE Stott Associates are quite a different architectural practice from PPI Consultants. For a start they are a young firm (three years old), quite small (10 people including four qualified architects, two interior designers) and they concentrate on architectural and interior design work, much of which is interior refurbishment of hotels and restaurants.

The work I visited was a hotel, restaurant and bar conversion for the Harvester Group, recently affected by the Hanson takeover of the Imperial Group. The largest building so far completed on Rucaps is a £2.6m hotel in Ashford, now under construction. A feature of their work is direct running of contracts in which they participate actively in the final stages of fitting out — on the principle that what the client sees in the end counts and that this is too important to be left to contractors.

Mike Stott was for some time senior architect for Trusthouse Forte Hotels, with whom he was responsible (among other buildings) for the attractive Post House Hotels just outside Cambridge and at Wrotham in Kent. His wife, Jill, is an interior designer, and together in 1983 they broke free from the constraints of corporate life to set up Ratcliffe Stott Associates.

While at THF, Stott had carried out feasibility studies on the use of inappropriate CAD and had come to the conclusion that Rucaps was the best system for THF, who balked at buying a system at the last moment. Another close link Ratcliffe Stott had with Rucaps was that Stott had known John Davidson (the managing director of GMW), from the early days.

Once set up, it was quite natural for Ratcliffe Stott to wish to go for Rucaps, having seen the need for CAD in the field of hotel and restaurant design where millimetres of table/bed space can determine the commercial success of a business. At first Ratcliffe Stott rented a DEC system from GMW computers since GMW were interested in helping set up a new practice with Rucaps. Ratcliffe Stott started by being committed (and still are) to making CAD work as a 2-D and 3-D design tool rather than just a working drawing production mechanism.

The major problem from the outset was the need for expertise in handling the system. The practice had started so well that Stott himself did not have time, nor did he really want to be, the computer manager. The answer was found in an advert (placed in BD in October 1985) looking for "A Lion Tamer to control a Rucaps CAD of a Beast". This came to the attention of Ian Bevan, a qualified architect who had been churning out working drawings of hospitals using Rucaps for Frank Shaw & Partners in Chesterfield for five years. His reply started "Dear Ringmaster" and consequently he got the job, finding that New Ash Green was unique in the South-east in having a pleasant rural environment and affordable housing.

The first thing Bevan did was to persuade Ratcliffe Stott to upgrade from the DEC system to the Prime 2250 which he had found to be vastly superior when installed at Frank Shaw's. This was done, at which stage, Ratcliffe Stott took the opportunity to rationalise the whole system to a lease purchase at

little extra cost per month although over a longer period.

The first system had been set up in a green tent in the Ratcliffe Stott office to protect the system from dust and heat. At the time I arrived to see the system (mid-June) the tent had moved across the bright new offices and had itself, and the computer plotter (Benson 1324) installed in their own purpose-built, air-conditioned and sound-proof unit. Water-cooled manufacturers say, is essential to keep all computer equipment cool, because heat degrades chips, which can cost a lot of extra cost.

From an initial impression it is clear that the use of computers permeated the office. In instance, the accounts sub-sheets have been on computer since the practice started. Digital Rainbow monitors purchased as part of the original Rucaps package. This includes the practice administrator, a standard accounting word processing programme (Pegasus), word processing (Wordstar) for letters, and a spread sheet programme for job costing. It is so well established that it is hardly commented upon. The Rucaps system (AO display and SigmaX colour screens) is set up in the centre of the planning office and is used mainly by Bevan and a young junior designer.

Bevan disagrees with the policy of training lots of people simultaneously, because it poses a large economic load on the office. Unless the system is used regularly, training can soon be forgotten. Ratcliffe Stott are thus pursuing a graded policy of acclimatisation and training for their other staff.

The CAD system has proved itself effective in capable hands particularly in the hotel department at Ashford where the client was delighted to see for the first time all the furniture set out on the floor plans. But Ratcliffe Stott did not, on this occasion, dare working details using the computer, finding hand detailing more efficient for this type of building.

Large sections of spec sheets were done on the word processor and pasted on to the drawings to further increase capacity, within a tight working drawing programme. The system was, however, very effective as a production tool, including a bureau service role, structural engineer for all its base negative general arrangement drawings.

The efficient use of the CAD system is naturally a major preoccupation of the senior partner, particularly since the cost of maintenance alone (hardware and software) is in the order of £1,100 per month. One reason for investing in the system is the ability to do large (and even huge) jobs with only a small workforce. It is hoped that a major contract in the Mediterranean will shortly fall on their desks (or rather on the monitor), at which time they will be able to afford to add a further colour workstation and colour solid modelling capability, the latter

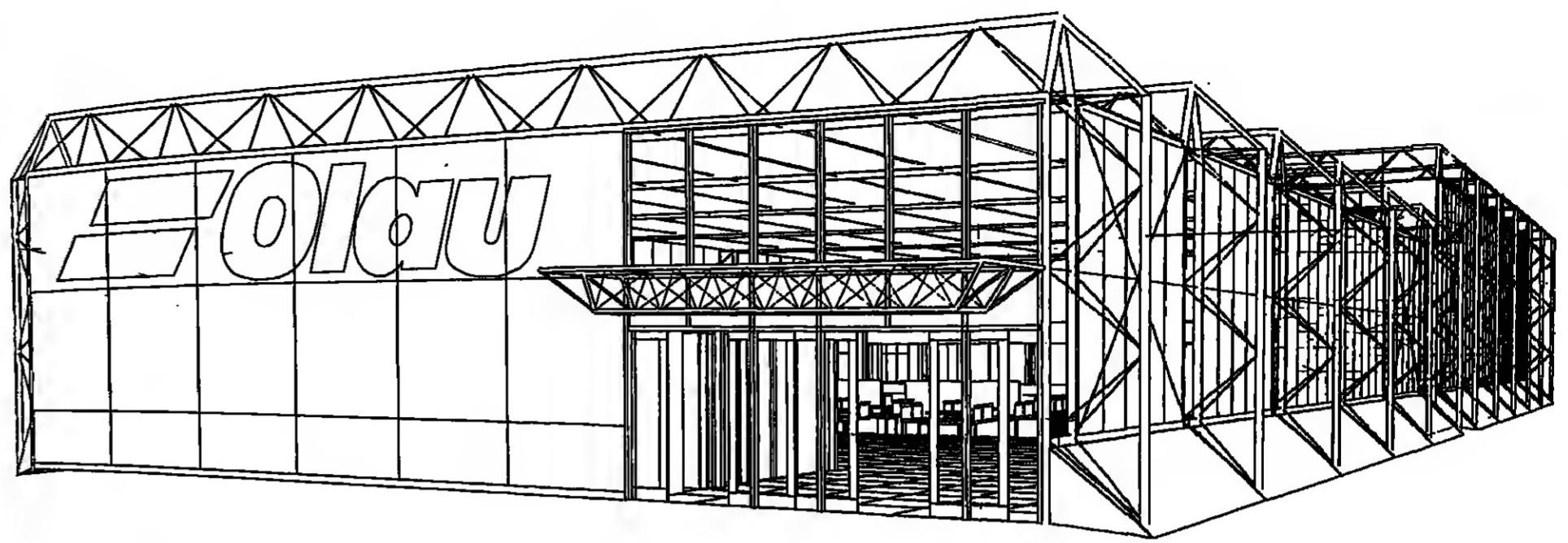
alone being an extra £21,000. They are also interested in the new RDM application (related data management), which adds a specification as part of the component description for a further £5,000.

Ratcliffe Stott are setting up a computer bureau company with a local structural engineers practice, John Allen Associates, to provide support for both offices and offer a service to other practices in the construction field. The two practices are working together on a project for a new passenger hall for Olau Ferries at Sheerness, the design scheme recently completed on Rucaps in two weeks and a 40-bedroom retirement care home in Kent.

The practice is also actively diversifying into the office and commercial field.

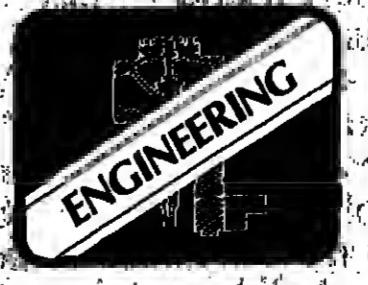
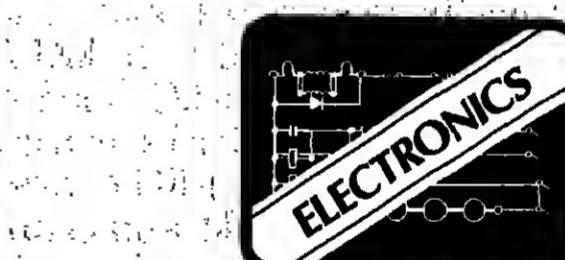
Ratcliffe Stott have shown that a small, young practice can invest in CAD and, provided they find the right staff, can make full use of all its facilities, particularly on the 3-D side. Mike Stott knows that he is taking a risk with architectural work load being so variable, but he equally knows that, if successful, his practice will be able to deal with the size of jobs that he is used to doing and wished to continue doing, and feels that clients will respect and back his commitment. I hope so.

### Computers/Rucaps



Olau ferry passenger hall.

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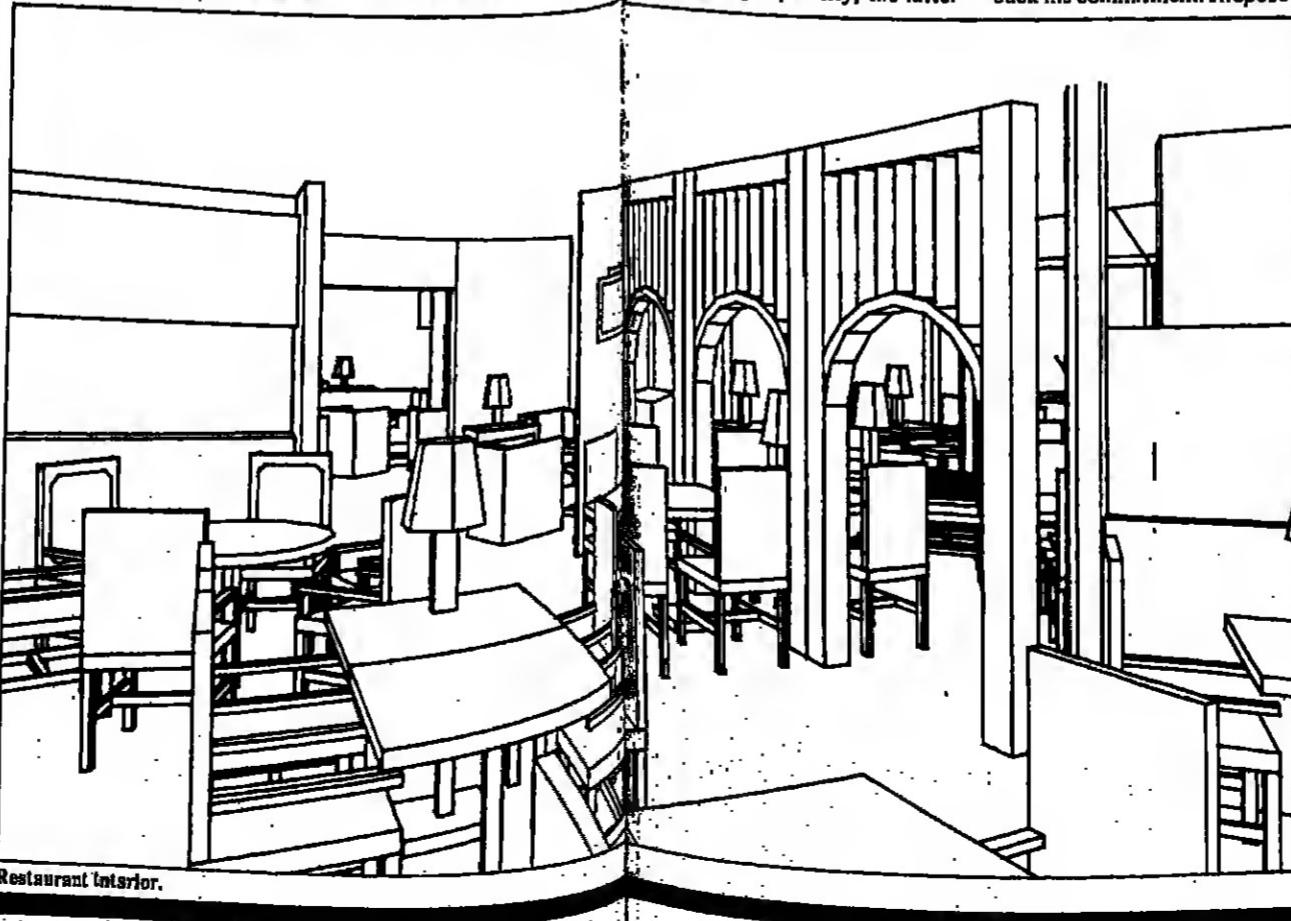
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Restaurant interior.

# Corporate images

GABLE has been a well-respected integrated CAD system on the university circuit for several years, being originally developed at the Sheffield University School of Architecture.

Commercially it has had its problems. Initially it was marketed by Genesis which has since disappeared from view, and it is now marketed and developed by Gable CAD Systems Ltd.

On the technical front Gable has always been a strong proponent of integrated design, ie the ability to carry out design evaluation (eg condensation risks, energy losses, specification etc) in tandem with drafting and 3-D modelling. Early versions of Gable were painstakingly slow and relied heavily on inbuilt hardware facilities, which themselves became obsolete and required the complete rewriting of the software about four years ago.

Such difficulties are history. Gable are now sporting a range of software comparable with many of the early market leaders and running on very much state-of-the-art hardware. The university connection has no doubt helped with University Grants Committee approval of the system, and the subsequent deal worth £2.5 million to supply all university schools of architecture (and indeed all universities) with Gable. Apparently a similar arrangement is being entered into with the polytechnics.

Such background weighed heavily in favour of the system when Wallace Camp, a partner with Stewart Riddick & Partners, was on the lookout for a CAD system to help establish a power base to take his practice into the 1990s.

Stewart Riddick & Partners have been practising for 15 years from north London, and are responsible for a wide range of retail and commercial developments around the country as well as leisure facilities, banks and private housing. Their largest project to date (and designed on Gable) is the huge London Docklands Arena sports centre, which is still under construction.

The practice is at pains to point out that it never turns down work, however small,

preferring to pass on the smallest jobs to employees to do in evenings and weekends. Much of their work is with, or on behalf of, corporations, institutions and developers for whom they carry out management contracts if required. They are not multi-disciplinary in the sense of having structural and M&E engineers, but are multidisciplinary in providing a blend of services on the management side reflecting their partners' professional backgrounds: Stewart Riddick is a surveyor, Cedric Crates a civil engineer, Wallace Camp an architect and Harvey Albert an interior designer.

Riddick makes no bones about wishing to develop a corporate structure and image, both to attract the corporate client and to circumvent the problem of practices relying heavily on the reputation and personality of the senior partner. "Corporations," says Riddick from behind the wheel of his light-blue Rolls, "virtually go on for ever."

It is with this philosophy that Stewart Riddick & Partners are going about expansion, which so far includes designing and building their new offices in Finchley, which exude established values and longevity both in their materials, proportions and well-detailed interiors. Such a building (apart from the yellow space-frame in the foyer ceiling) would be equally appropriate in style to a bank or insurance company. The offices themselves are a pleasing addition to the street scene, and have won a suspicious populace in what is Margaret Thatcher's constituency. As far as future expansion is concerned Riddick makes no bones about his desire to acquire other practices in the locality that require an injection of fresh capital, ideas and management. As yet there is no wish to be absorbed by a larger grouping.

Purchasing a CAD system is very much part of the forward expansion of the "compete and be successful" policy. Gable was chosen because it offered:

(1) a secure development base, not totally tied to commercial pressures;

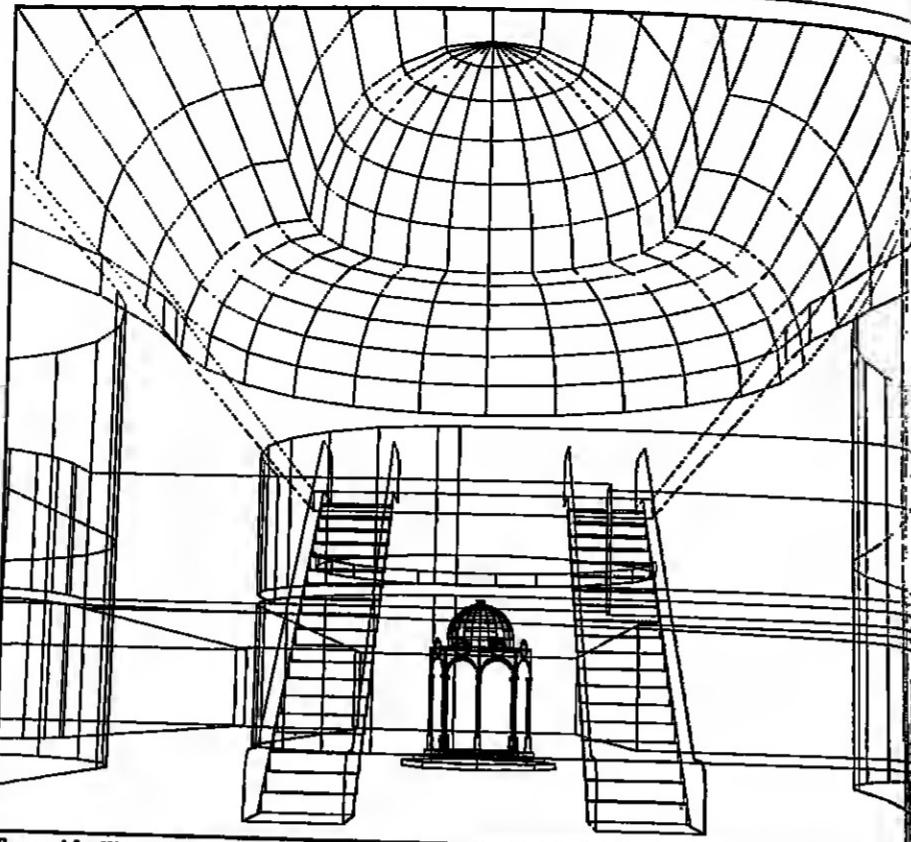
(2) a relatively cheap entry cost of about £65,000;

(3) hardware and software

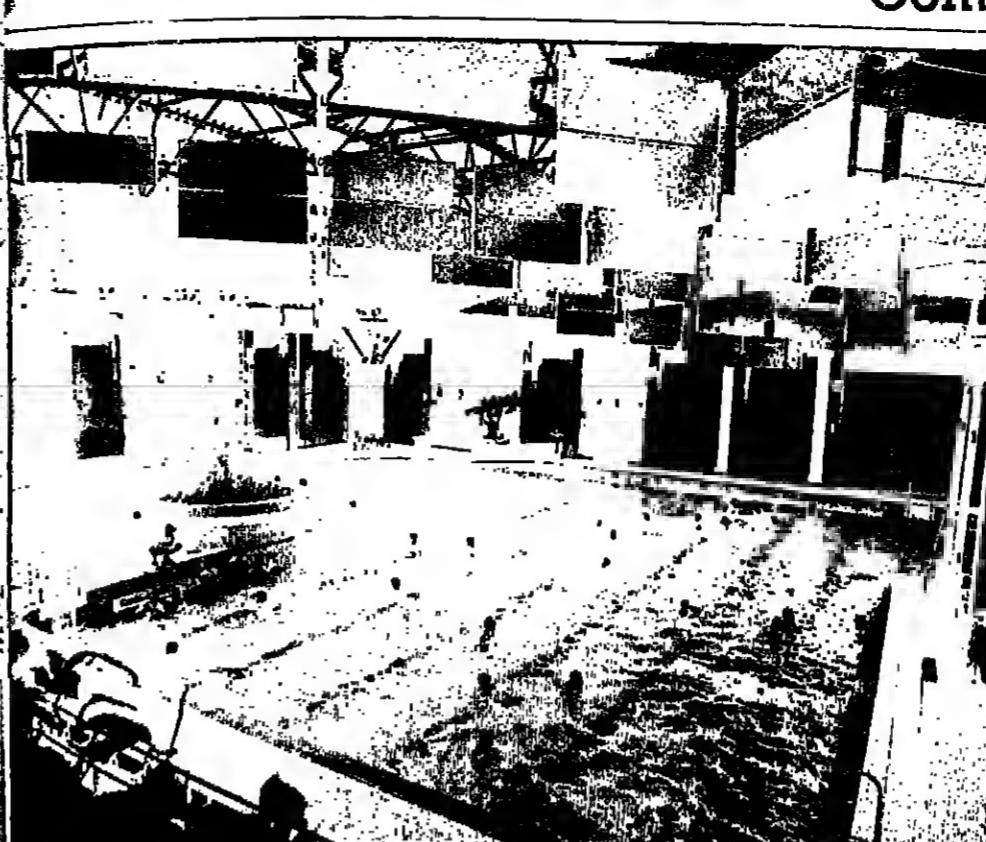
maintenance of 10 per cent purchase cost per annum;

(4) ability to add extra work stations without adding additional software costs.

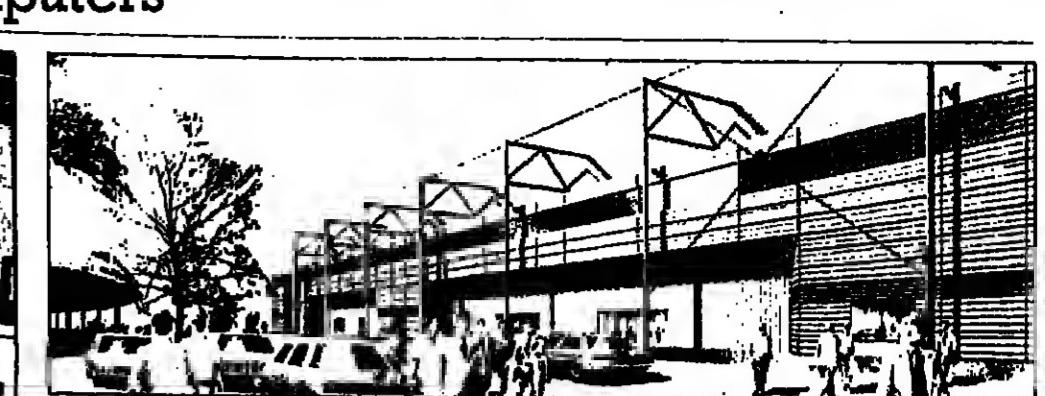
The system was installed a year ago and recently moved into their new offices. The practice were astute in snapping up Andrew Bevan, who had been using the system for three years already, straight from the Sheffield school of architecture. This enabled the system to be used "in anger" from the start, and generated immediate demand for extra software and hardware facilities, that has just about doubled the initial purchase price. Bevan has helped train some five to six other members of the practice, and



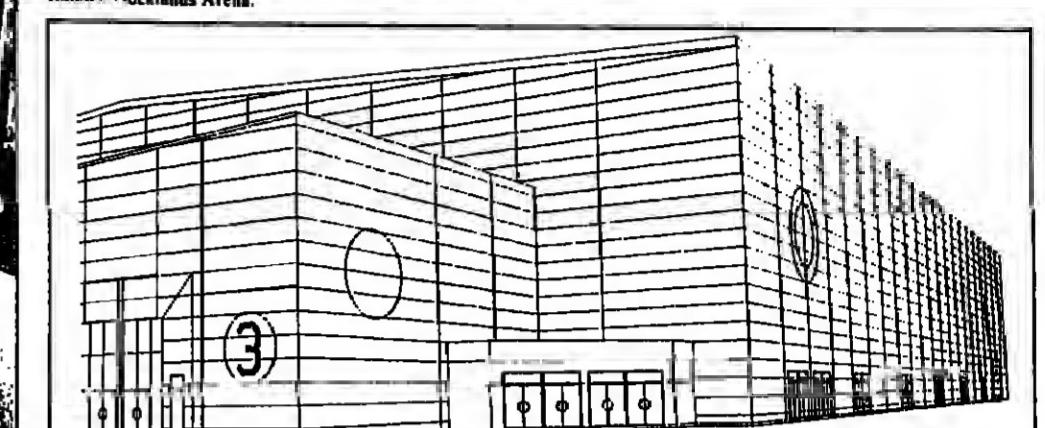
Proposal for West Bromwich shopping mall.



Xiglisher leisure pool complex, Kingston upon Thames.



London Docklands Arena.



Large multi-purpose space.

Camp is at present negotiating with the Manpower Services Commission for funds to train a further 15 users at their offices, a facility that other users of CAD might note.

Since purchasing the system the practice has added a further two colour workstations with 14in colour monitors (Tetronix 4106A) and bit-pad input tablets (Tetronix 4957). The plotter is a Hewlett Packard 7585B AO pen plotter. The whole installation fits neatly into some 250sq ft of office space, wires to the central processor being discreetly hidden in purpose-built ducting that runs throughout the building. The processor (in a separate room) is the powerful Data General (MV 4000 DC) with 3 megabytes of memory.

The computer itself is powerful enough to allow six graphics terminals to work simultaneously on different projects, plus run networks of terminals for carrying out wordprocessing and management functions. Current software for the latter being written in-house is rather piecemeal, and alternatives to run on the Data General are being sought.

I saw some impressive work presented as an automatic "play-through" demonstration that had been prepared beforehand but which showed real-time generation of hidden line perspectives as well as sample working drawings. The performance was unrecognisable from the earlier version I saw three to four years ago, and nobody could accuse it of being slow. The problem of getting enough data on a 14-in screen is offset by the stunning colour quality of the Tetronix screens, and the competent working drawings were proof of the efficacy of the system to do more than generate flashy graphics. The practice is wedded to colour, and have not really considered purchasing a 20in mono screen (which can be particularly effective for work-

ing drawings) as a prelude to purchasing a 20in colour screen which Camp considers at present to be too expensive at around £15,000.

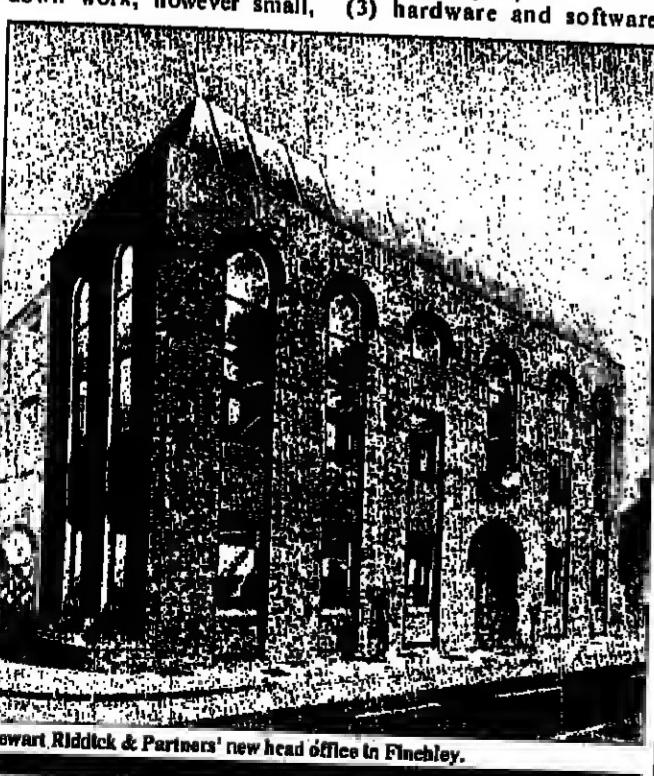
The system to date has been used successfully for early 3-D and elevational design evaluation, environmental design analysis and working drawings, though not as yet for working details. The practice are still learning skills, particularly with regard to entering tight City sites with unknown angles and dimensions. Finding the level of tolerance to work with is an important feature of using CAD, which tends to require very accurate data to function. With accurate data (eg site survey) the computing power can be quickly harnessed as the practice found in winning a limited competition for the GLC residual body for industrial units in Lewisham, where the winning scheme was generated in just three days.

The user group is still quite small, with many of its members going through the process of upgrading obsolete hardware and software. The availability of droves of trained Gable users emerging from schools of architecture is going to play a major role in the development of the CAD market in the years to come, which will no doubt soon expand the number of users.

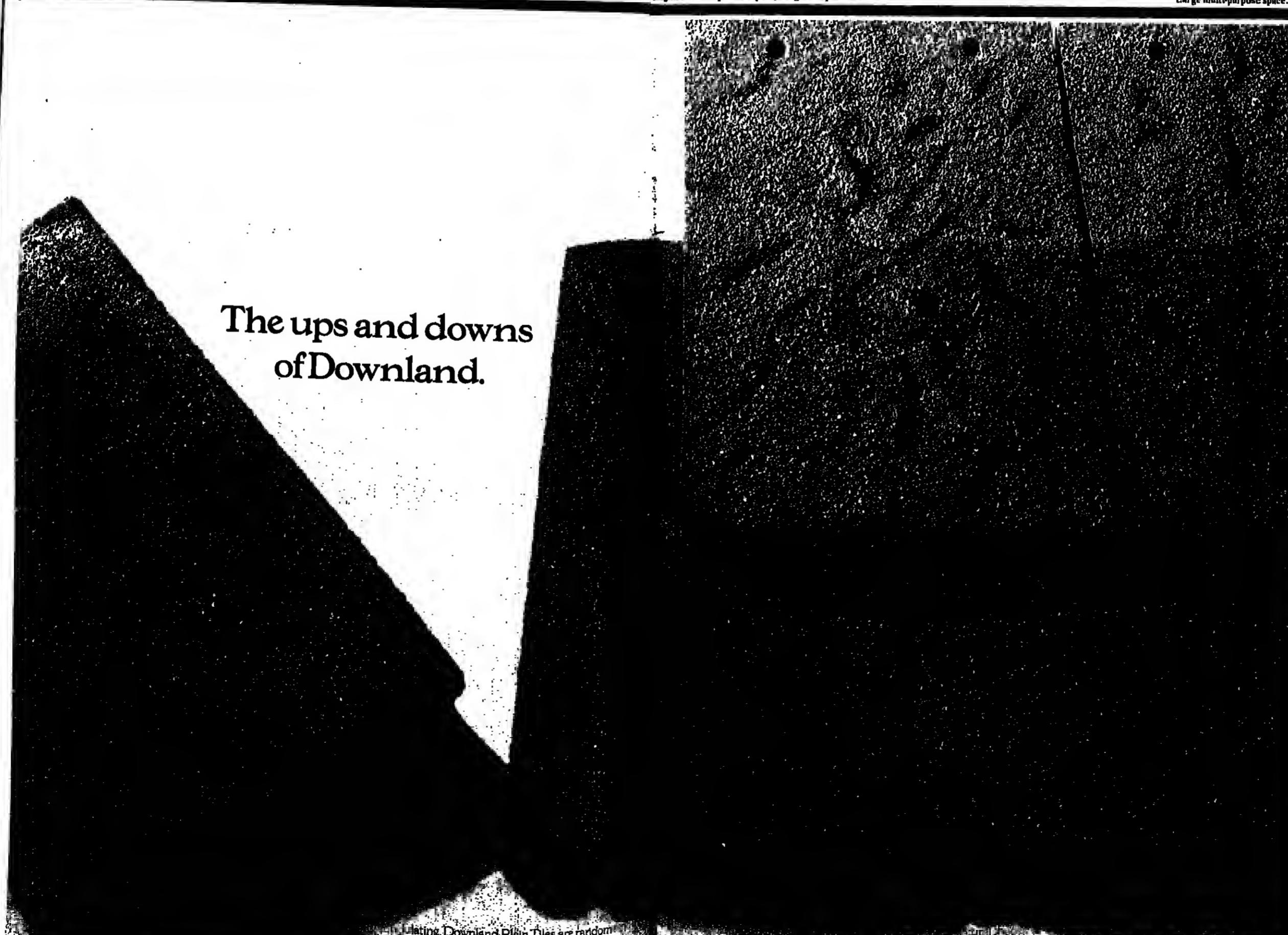
Stewart Riddick & Partners are convinced that they have made the right moves in establishing a corporate base, powered by the extra CAD facilities that they can offer clients, from which to do battle with their competitors, the design and build companies. They also hope to dispel the myth that there are only three architects in the country.

*Wallace Camp, Stewart Riddick & Partners, Stewart House, 930 High Road, North Finchley, London N12 9RT. 01-446 4131.  
Rick Hall, Gable CAD Systems Ltd, Arts Tower, Western Bank, Sheffield S10 2TP. (0742) 700696.*

## The ups and downs of Downland.



Stewart Riddick & Partners' new head office in Finchley.



Using Downland Plain Tiles are random.

## Computers

# Learning curves

IMAGINE if hand draughting was related to riding a bicycle (dependable, flexible and fast in traffic) and running a mini-computer CAD system was akin to driving a (more or less powerful) car, then doing working drawings on a microcomputer is a bit like hitch-hiking.

You know you will probably get there in the end—but after several lifts and in an uncertain time. If you are well dressed and know where to stand, hitch-hiking can be effective, as I found, having missed the train in Ipswich to go and see Hugh Feilden of Russell & Feilden Architects, in rural Suffolk.

Russell & Feilden are a small practice formed about five years ago by Clifford Russell, an experienced architect of the old school who has since retired in consultancy status, and Hugh Feilden, who qualified at Cambridge in 1977. The practice has been largely rural based, working on one-off extensions, doctors' surgeries and more recently with developers on sheltered housing. In fact it is a typical small practice of which

there are hundreds and just the sort of market that the micro-computer CAD market is aiming at.

Feilden has been interested in micros for years, buying a Sinclair ZX81 when it first appeared and, missing the Apple II/Commodore years, dived in and bought one of the earliest IBM PCs that came into the country over two years ago, so early in fact that he has since had many problems in correcting and enhancing the hardware which was an American import and not made in Britain or Greenock, which led people to think it was a far-eastern copy!

Despite early hardware difficulties, the IBM PC proved efficient and cost-effective from quite an early stage, being used in all the use of the computer had been successful. The retirement of his partner and the move to Yoxford into his newly renovated offices (a

for word processing and spread sheet analysis. The latter has been used extensively for providing door, window and ironmongery schedules, fee calculations, hourly job costing, VAT calculations and contract estimation which has "saved his bacon" on several occasions and proved remarkably accurate in practice. Feilden also purchased the Silicon Office program (from Bristol Software), which is a database applications package, and programmed himself for producing priced schedules of work and specifications.

(d) It looked quite easy to learn. Last Christmas Russell & Feilden purchased the software together with a 20MB hard disc drive, Hewlett Packard 7475A A3 plotter, Calcomp 2000 15in x 15in digitiser and upgraded the IBM PC to 640K and inscribed

tastefully converted ballroom adjoining his house) provided the impetus to launch into CAD. Feilden's main concern was to be able to produce working drawings without reliance on technicians, and be able to do with lines what he does successfully with words and figures. Russell and Feilden went for an Autocad system for the following reasons:

(a) RIBAS were providing manufacturers' data for it (RIBACAD) and the combination of RIBA and Autocad were "names which aren't going to bust on you".

(b) It was available on the IBM PC and could be provided and hopefully supported by a local IBM dealer.

(c) That the extra investment cost £240 per month (over three years) only required a saving of 10 hours a month of office time, if you charge at RIBA recommended rates;

(d) It looked quite easy to learn.

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Russell & Feilden on Autocad.

(Somewhat late in the day) an 8087 chip (maths coprocessor) — to make it all run faster, an essential requirement in Feilden's view. After nine months of using the system Feilden now employs two part-time technicians. He uses Autocad system himself, though has found that certain limitations of his system make it an adequate substitute for good technical draughting. His experience can be summarised as:

(1) "My dealer hadn't got the faintest clue about how to use the program";

(2) "The potential is certainly there but it takes a long time to reach that potential";

(3) "You have got to get into the sophisticated bits to make leaps forward";

(4) "It takes as long to draw on the computer as it does by hand, when putting the drawing in first time";

(5) "The most useful feature is the manipulation of drawings, for instance drawings can be entered at any scale and reproduced at any scale. This is helpful in converting from Imperial to Metric and for entering survey data. It has also proved effective in providing technicians with co-ordinated base drawings on which to work at different scales.

(6) The current 3-D facility is poor, there being no facility for sloping roof planes. The hidden line removal takes about 1/2 hour for not a very complex building (it is apparently down to 10 mins on the IBM AT which is still slow compared with many true 3-D programs). Better 3-D modules are apparently on the way;

(7) The use of the day-and-night screen is too small to draw on accurately. The system is complex and it is difficult to remember which "layer" of the drawing you are working on, particularly with the relatively low resolution mono screen. Feilden feels that the major priority is to get a 20in CCG (Cambridge Computer Graphics) screen (costing about £2,500);

(8) There is a limit to the use of the A3 plotter — especially when so much of the practice is geared to A1 drawings. The colour facility is useful for adding services (lighting etc) but has limited application until colour copiers are more readily available. Feilden is considering the purchase of an A1 "turtle-plotter" which marches around a flat board at a fifth of the speed of the A3 plotter. He has yet to see it in action.

(9) Elevations produced tend to look mechanical, with little variation. Windows drawn in

detail tend to visually put themselves forward on site elevations".

(10) RIBACAD is potentially useful, but at present there is little actual data available (one range of sanitary fittings and some roof tiles) and would be greatly enhanced if having say Boulton & Paul windows and doors. One criticism of the data supplied is that it is so detailed that it takes time to "switch-off" subroutines before plotting and printing. (This is a criticism even common to those using RIBACAD with GDS);

(11) Entry of survey data is quick and effective;

(12) Entry of survey data is quick and effective;

(13) Facility for mirroring has proved effective in the case of a client who decided at the last moment to turn everything round. On the computer it is just one command rather than complete redraw;

(14) The major cost is in learning to use the system.

In discussing progress and current developments that Autocad is producing (eg addition of LISP to allow generation of "macros" that allow for automatic generation of cavity walls etc.) it became clear that Autocad is really moving out of the sphere of what we at present consider to be inferior. Its facilities are comparable to many large-scale CAD systems and indeed Steve Race of D'Arcy Race (covered in another article) is seriously considering moving from a second-hand mini-computer GDS (General Drafting System) to a network of terminals running Autocad software.

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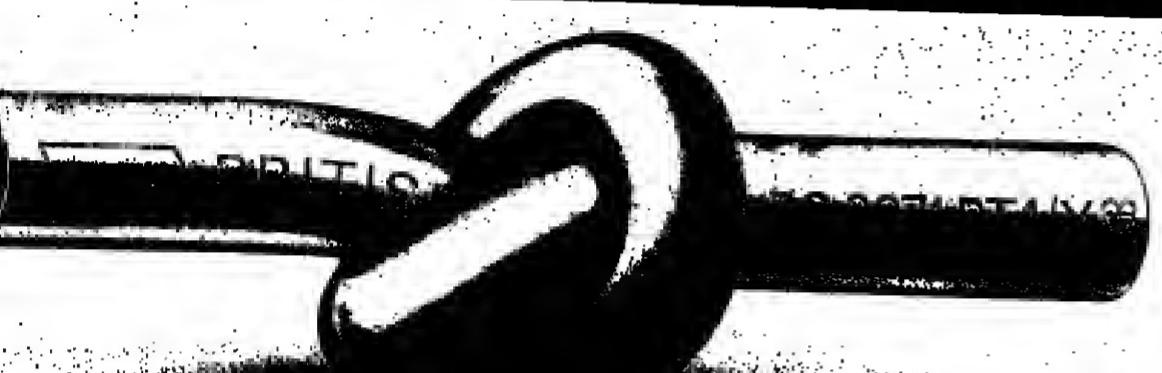
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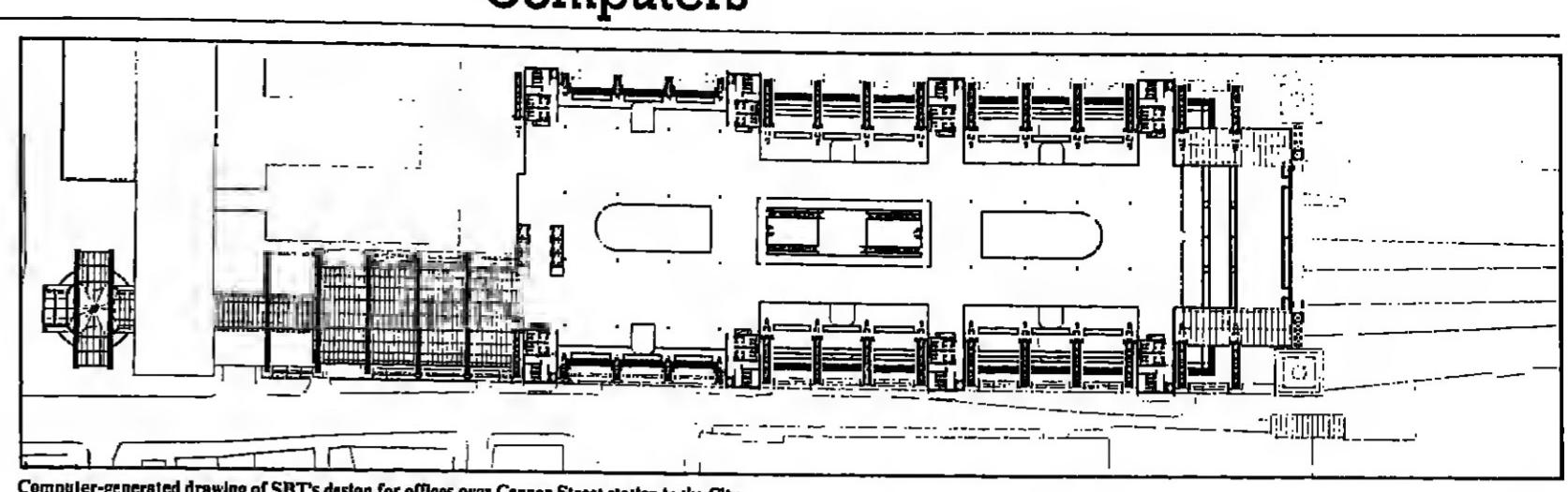
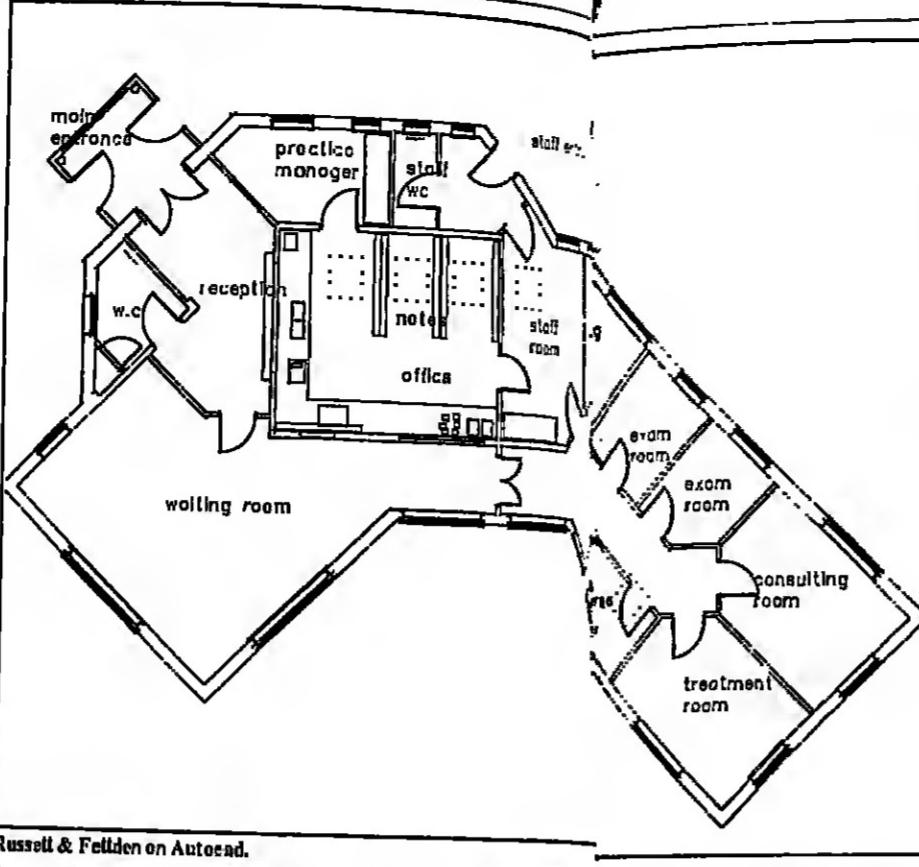
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Computer-generated drawing of SBT's design for offices over Cannon Street station in the City.

# Computers

## GDS trouble shooters

SCOTT Brownrigg & Turner (SBT) were one of the first users of GDS (Graphics Design System) in a private practice and have been one of the trail-blazers of CAD.

Trail-blazing is a two-edged sword, as one of their partners Chris Blow described. On the one hand you are using the latest technology and so have a lead; on the other hand you are having to find out how to use the system successfully and put up with the birth pangs both of software and hardware.

After six years of using GDS

on Tektronix equipment, that had become obsolete within two to three years of purchasing the system, SBT have recently re-equipped both their London and Guildford offices with seven intelligent colour terminals by Ramtek (4225), which are compatible with the latest Tektronix equipment, but have cost advantages.

Heathrow has been for some time the showpiece scheme carried out using GDS, but they have been moving on with a series of schemes for Digital Equipment Co.

Like Steve Race (of D'Arcy Race, Blow feels that the move from ARC (Applied Research of

Cambridge) to McDonnell Douglas has resulted in a loss of service. Whereas before the buy-out Scott Brownrigg & Turner received personal attention from a close-knit team of boffins, now when they ring up nobody knows who they are! Perhaps Blow's position as

chairman of the RIBA Computer Group may have some effect, though he himself is pessimistic. It is quite clear as most of the major systems are reaching compatibility in terms of performance, that the main criteria for choosing a CAD system (just like choosing an architect) is an evaluation of the support and after-sales service offered and even the largest company should pay attention.

Alison Bromilow, Scott Brownrigg & Turner, (0481) 686666.

Steve Race, Ramtek UK, (0256) 469541.

Paul Purvis, Datadraw, 01-379 5958.

Their other benefit is that the new terminals control a local memory, which memorises a portion of the total building model taken from the central Prime mini-computer. This allows for far faster redrawing of the building section being worked on.

The Ramtek stations also have the benefit of interfacing with graphic pads containing instructions held in iconic form. This has by all accounts greatly speeded up entry and learning times, and brought the user interface up to the level of other comparable systems in this respect. Colour has helped by differentiating between elements and components, as well as recognising recent additions. The new hardware has also enabled the generation of sophisticated solid modelling.

An important feature of re-equipping has been to keep the SBT staff happier, and reduced the temptation to go off and work for others on newer, more sophisticated equipment. It is known that the major cost of a system is in training time and the loss of a trained employee is a capital loss. SBT, having clocked up in excess of 80,000 hours, are philosophical about having trained a number of people who then moved on to

## Computers

# Coming up fast

PARKING your car on the Cambridge Bocks and walking north through the Botanical Gardens brings you out right opposite a pair of Victorian town houses. The red door-furniture, obligatory grey carpet and Formalux ceiling are unmistakeable signs of the presence of architects.

Indeed it is the offices of Forum Architects, who are not only one of the most recently arrived architectural practices in Cambridge, but also possibly the only private practice in Cambridge using a large-scale CAD system, a fact somewhat surprising since Cambridge is the home of GDS (the McDonnell Douglas CAD system), the CICA (Computer Industry Computing Association) and a well-known haven of high-technology.

Forum Architects were foun-

ded in 1979 by David Lee and Barry Couperin Saffron Walden, moving into Cambridge two years ago with six staff and now employing 15. Much of their work is with the PSA, who are now close by, the Post Office, Trust House Forte and the Texas and Queensway stores for whom they run design and build contracts. They also produce structural technical work. As a practice they think of themselves as small and enthusiastic, not being afraid to pitch in with competitive tenders and tight schedules while maintaining high standards of design. They remind me somewhat of the Covell Matthews Wheatley Partnership 10 years ago.

David Lee described his reasons and requirements for a CAD system: "(1) Forum wished to cope with growth and expansion while staying relatively small and avoiding the need to hire on site as the workload varied.

(2) A 'workhorse' was required to produce presentation and working drawings fast and with accuracy.

(3) Microsystems were not considered powerful enough and might waste time in 'dabbling'.

(4) 3-D was not an essential feature of the system and would add unnecessary complication initially.

(5) It was important that the system was easy to use and would be quickly productive.

(6) That the system should come from a supplier that would not go bust."

This naturally led to an examination of two main systems in detail: GDS and CalComp (now owned by Lockheed), and at the end of the day the decision to buy CalComp was largely based on which company was the more responsive and offered the best "deal".

Forum budgeted £60,000, for which they required a working

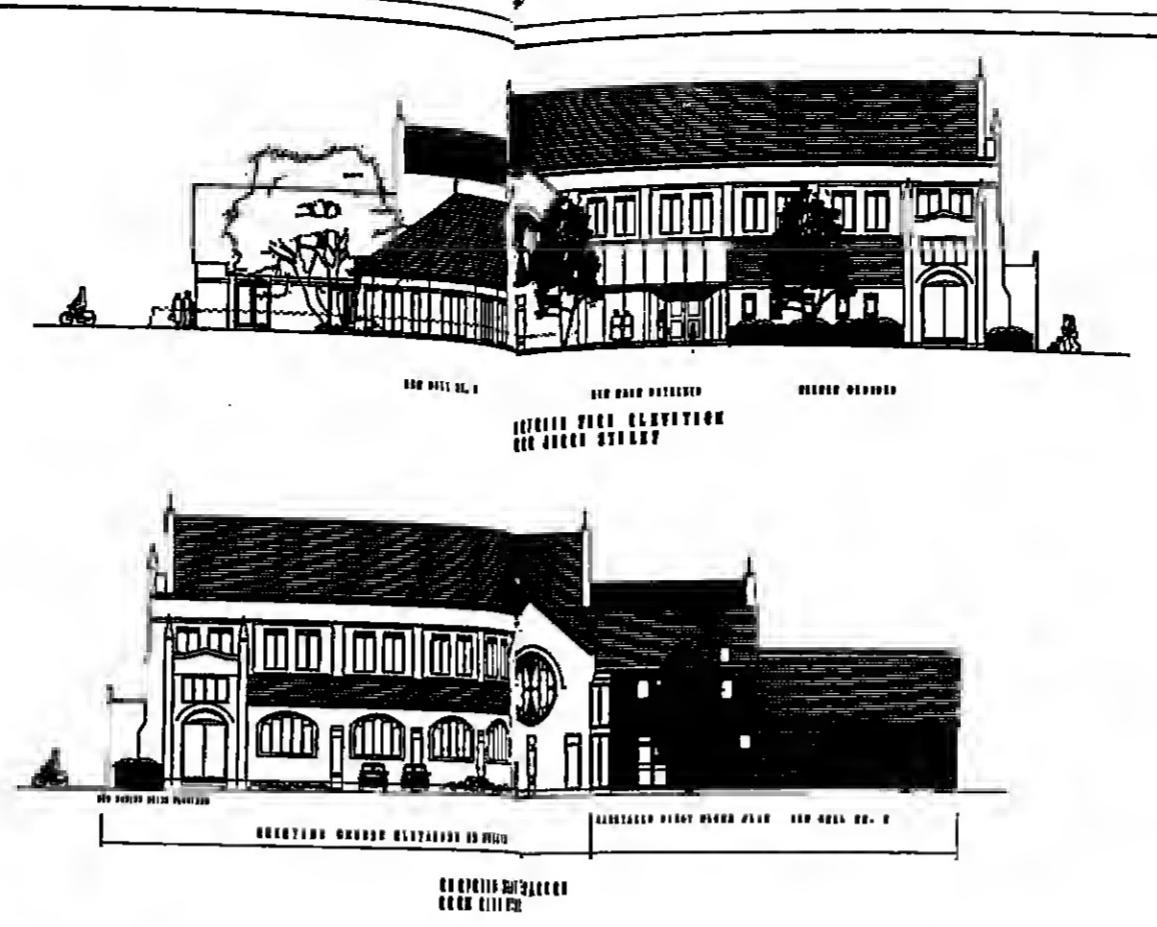
system. CalComp were prepared to accommodate them and carry out training within this sum and so got the order in April this year.

Since taking on a CalComp's System 25 500 Series workstation (with twin monoscreens: 12-inch for text, 20-inch for graphics, joystick, 85MB disk-drive, minicomputer and 1043 A0 plotter, all manufactured by CalComp), Forum are delighted with their decision and found in Stephen Pennington (a senior architect in the practice) somebody whose previous experience of micros enabled him to quickly grasp the inner workings of the system — especially some of the more rarified aspects of the UNIX operating system which CalComp uses. Both Lee and Pennington were trained at CalComp's HQ in Bracknell. Lee learnt the system both out of interest, but also, as a partner, he recognised the value of continuity.

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Wesley Methodist Church, Cambridge.

system, he hopes, will overcome potential difficulties arising from future staff changes.

Forum are pleased with CalComp's response and helpfulness to date in establishing the system in use. I was impressed how for they had got in six months or less, which shows how easy a system it must be to learn. When I visited, a third architect (trained in-house) was busy working up a further scheme using the system.

The first scheme they used the computer for was a simple retail warehouse for Comet, with lots of repetition and little complexity; a good move. Forum have been lucky in having keen and dedicated staff who have worked a considerable number of extra hours to develop expertise without asking for overtime. I have not personally been that enthusiastic about 2-D drafting since hand drafting is so efficient and even enjoyable. Much of this was due to the excellent "pan & zoom" that has been such a feature of the possible to hold sections, plots, the joystick controlling a fluid movement facilitated by what must be a very fast processor.

The mono 20-inch monitor has excellent resolution, and it is possible to hold section, plans and elevations on screen simultaneously without noticeable loss of speed, using the plan and sections to generate elevations and vice versa, with the ability to zoom in on details. Forum would like to have colour to differentiate the many "layers" on each drawing, but find the mono screen quite acceptable, particularly since colour screens have more flicker and glare. The net result is the ability to draw just like on a drawing board but faster and with far greater accuracy and control.

CalComp "thinks" in terms of isolated drawings generated by reference to a component library. In this it is not far different from GDS or even AutoCAD. The system allows the generation of "macro" commands, some provided by CalComp, others which can be written by the user. These are very powerful and for instance enable the filling in of the title panel to control the filling of the drawing. This is brilliant application software, because it mirrors the way architects are used to defining and recording drawings.

The title panel itself becomes the controlling feature of the

drawing register. Other means control the use of fonts and line sizes, drawing linesizes, colors (on the plotter) etc, which allow the generation of an idealistic "house-style" beloved of partners. Much of Pennington's work to date has been in setting up these macros which are accessed using a standard tablet menu on a digitiser. The main difficulty has been the lack of adequate documentation on the Unix system.

Lee described that clients on the whole are pleased to find their buildings "on computer" and associated with high technology. Especially they enjoy the benefits of fast delivery. He recounted one instance where schemes were prepared in the morning for an extension to a post office, taken to the client the afternoon, who wanted various features of the four schemes to be incorporated in a fifth, which was generated within a couple of hours and "faxed" through to the client the same evening.

A weakness of the system, as any such system, is still at its plotting end. Plotters are reliable now — but do not yet have the ability to hold sections, plots, the joystick controlling a fluid movement facilitated by what must be a very fast processor.

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hardware and software maintenance — £500 per month. This compares favourably with some of the other big systems. Forum know that they will soon need another workstation which they hope to add for £15-18,000. I was amused to find that, despite the high cost of the equipment, there is a reluctance to spend a few hundred pounds on an air-conditioning unit to fit it all cool: perhaps they have done so by now, if it is necessary.

The CalComp system and Forum Architects have settled down well together, and evidence shows that it is already beginning to pay off dividends, with clients interested in Forum because they are using the system. The speed with which they have become acclimated must be due in large part to the dedication and enthusiasm of their staff and the direct involvement of a partner in the learning process.

Lee hopes also that work will come as overflow from other members of the user group, which at approximately 30 users is quite small but varied, including manufacturers (eg Dunlop), M&E engineers and local authorities. It will be interesting to see whether Forum can stay small by using computers, as is their intention. I would not be surprised if they carried on growing.

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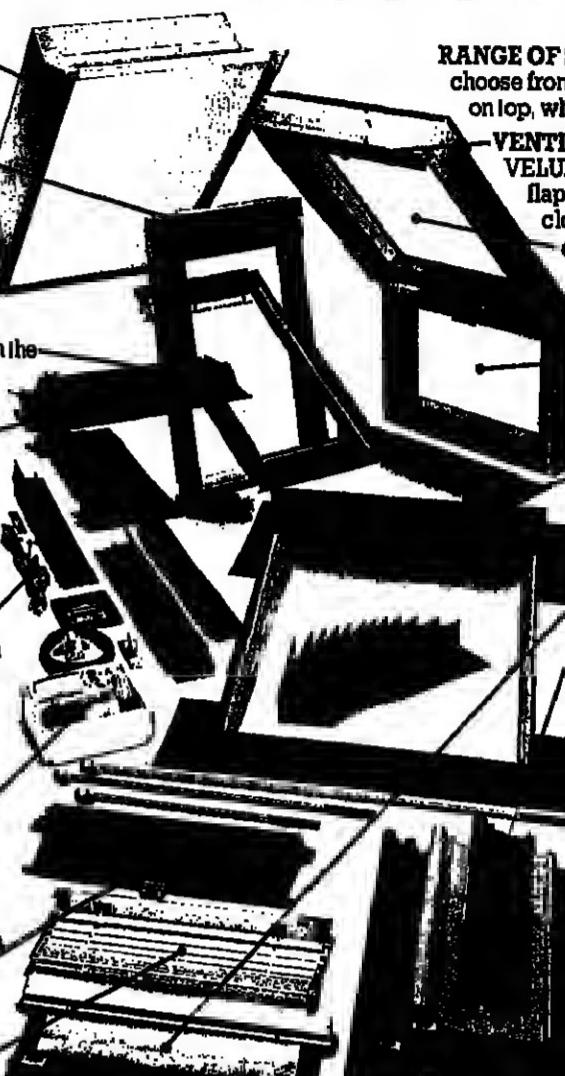
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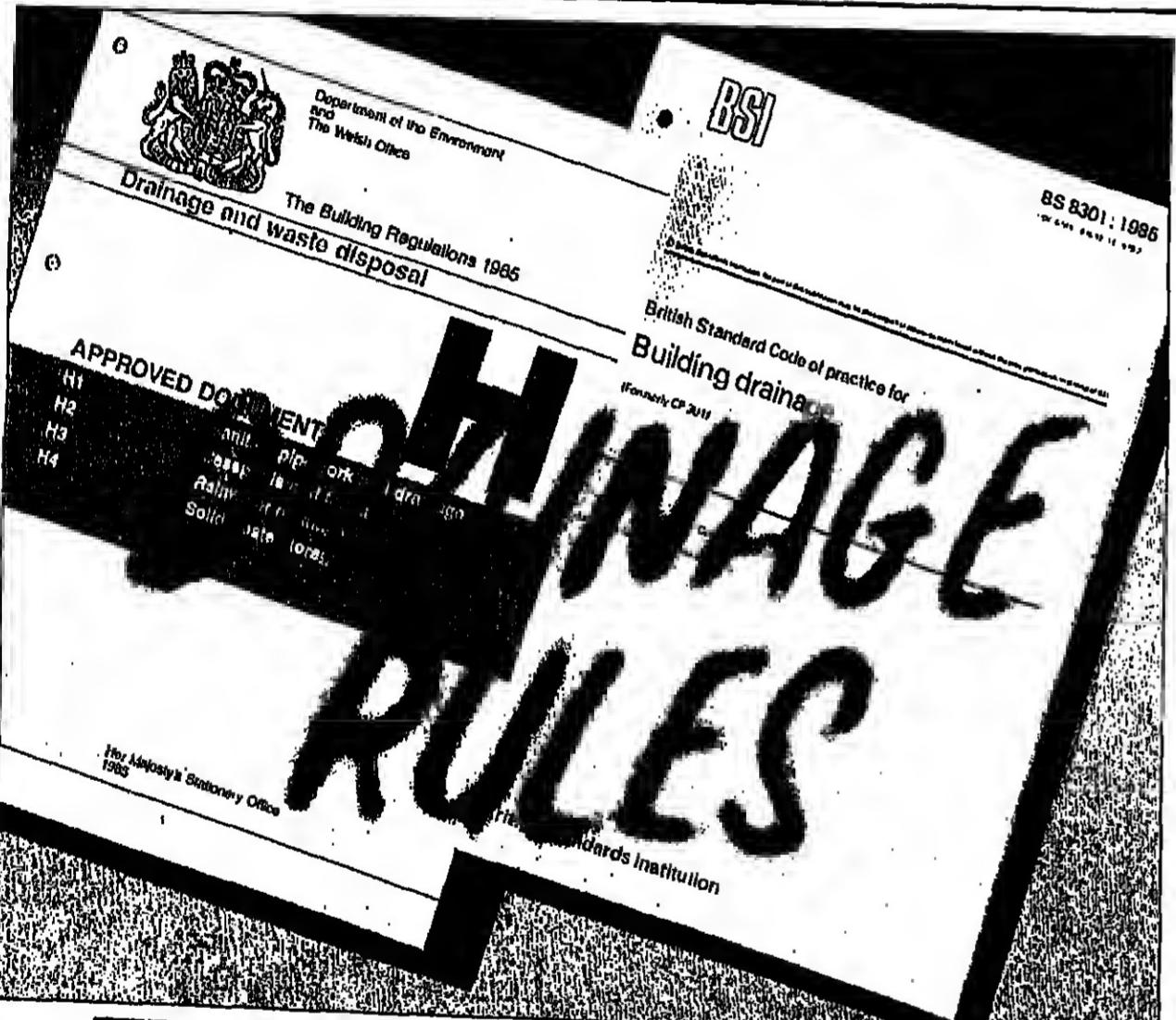
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## Sow's ear to a silk purse

Chris Higgins of Plincke Leaman & Browning relates his practice's experiences in setting up a computerised office management system.

THIS is the story of Plincke Leaman & Browning's search for an office management system and how it led them to an unlikely conclusion.

On the way they met some odd experiences, some frustrating, some hilarious.

PL&B are a practice of some 28 staff based in Winchester, Hampshire. Although they are primarily consultant architects, they also run a project management service and two of the partners are qualified in other disciplines; one being a quantity surveyor, the other a construction manager.

A few years ago the firm was expanding fast and the project management partners recognised the need to introduce a reliable office management system (probably computerised), to improve the efficiency and profitability of the firm. The needs were identified as follows:

- To know the real costs of running the firm.
- Which projects made profits or losses.

Identifying loss-making areas early enough to remedy it problem.

● When fees were due.

● The instant calculation of work in progress whenever required rather than once the auditors arrive at the financial year.

The partners also wanted means of knowing the implications of certain management decisions, such as how the review would affect overhead costs, or the effect of a professional indemnity premium when spread over hourly rate for each member of the office.

So the aim was to find a system to provide all the answers at the push of a button to ensure the right management decisions.

The big questions for some one knowing almost nothing about computers were which system? and what hardware? The choice of computer system to the layman is like a maze.

PL&B initially got it all wrong. With so many systems to choose from, they opted for a standard word-processing package which was acquired at the same time which was very successful, but it was soon recognised that it would be even more efficient on more powerful hardware.

An IBM PCXT was purchased and dedicated to word-processing. Although supplied by a different dealer, the industry was fraught with insecurities and he too went into liquidation soon afterwards. However, this was clearly the right package to cope with the needs of the practice, they still needed the ideal management programme to help control their performance, their cash flow, and analyse their efficiency and profitability.

At that time it was still a difficult dilemma — they could buy a standard package but would it really do what they

wanted? The alternative was a purpose-written set of software, but the cost would be phenomenal (and even then with no guarantee of eventual performance).

Still learning, PL&B went to various seminars and demonstrations looking at all the ready-made systems on the market. It was difficult here to judge how many slick salesmen were better than their product, or how many clever computer boffins might have had the right answer.

Clive Houghton, one of PL&B's management partners, looked at every system he could find on the market. After several months he concluded that a system called Prophet came closest to our brief. It was developed by Nigel Charlesworth, a computer programmer who had previously practised as an architect. He had the bones of a very good system, but had neither the resources nor the presentation to complete the development or market it professionally. Despite being slightly chaotic, he was clearly a clever programmer and the decision was made to become one of his first customers.

Although PL&B were pleased with Prophet, it clearly needed a lot more work to perfect it, and it was not long before Houghton and Charlesworth had fallen into a working partnership in which PL&B became Charlesworth's guinea pig, providing user feedback during the development trial period. Houghton analysed any weaknesses in the system and Charlesworth responded by rewriting the program-

ware, if they had known the sheer effort and time involved, they might never have started.

Almost two years later the redevelopment of Prophet had been refined to a point where PL&B were delighted with it. It had been created to suit the demanding needs of a thriving medium-size practice; it was rewritten in a powerful computer language called Pascal, and capable of running on each of the commonly adopted computer operating systems, MS-DOS or CP/M. In theory it should now be possible to run Prophet on almost any contemporary computer, although it was really aimed for IBM or IBM compatible subject only to the hardware having the capacity to operate the programme (a minimum of 256k ram internal memory plus a 10 megabit hard disk.)

Looking back on the whole experience, PL&B are certain that every practice could benefit from a computerised office management system, and their advice to other like-minded firms is as follows:

- Carry out your market research carefully.
- Assess what you need before you go too far.
- Avoid over-sophistication or too many changes.
- Be sure that the system will serve you and your practice won't become a slave to the computer.
- Consider the suitability of the software and subsequent user support.
- Ensure that hardware is fully compatible with software.
- If you don't already use word processing, this could easily be considered at the same time.
- It takes time to get it right, but the commitment will pay dividends.

Further information is available from The Silk Purse Company, 5 The Square, Winchester. Tel: (0962) 63603.

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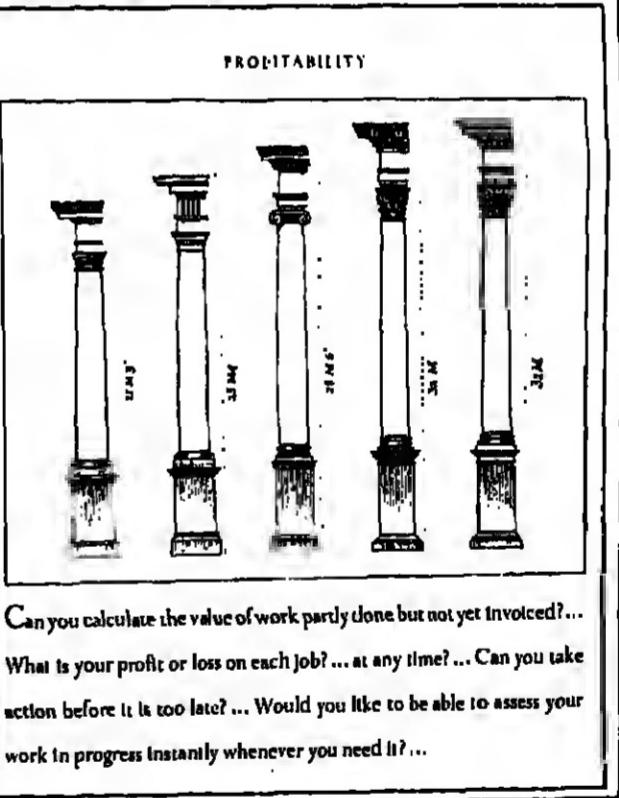
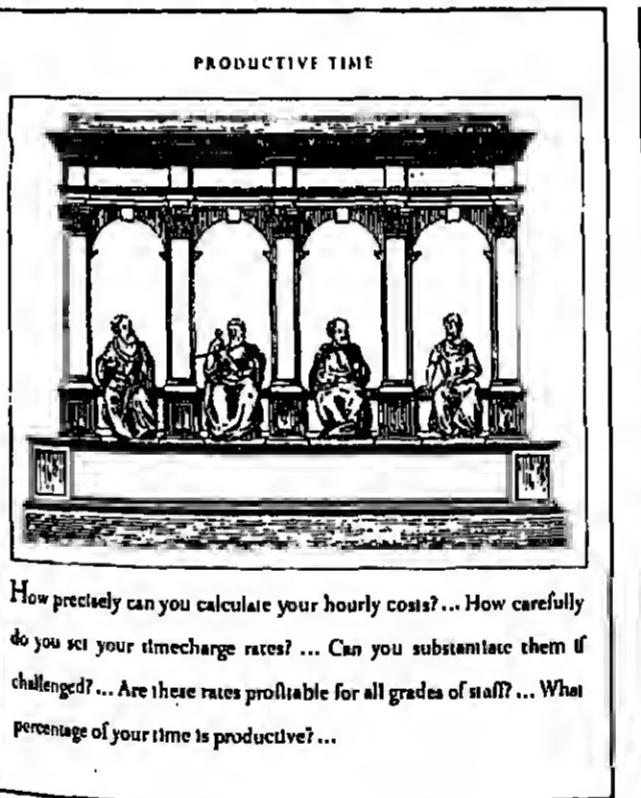
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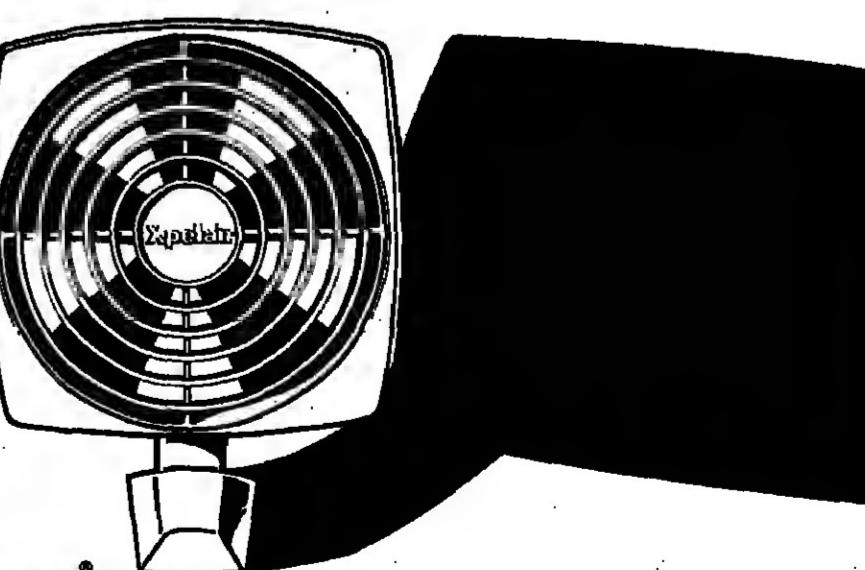
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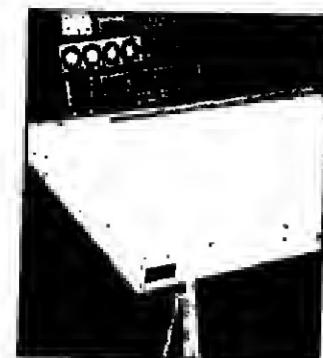
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## New products

Compiled by Herold Hudson

## Back-lit draughting

SUITABLE for graphic, architectural and engineering applications, a range of backlit draughting tables has been introduced by GM Technical Services. In sizes from A0 to A4 — the two larger sizes available mounted on stands — these draughting tables include a green filter to ease eye strain and a dimmer control adjusts the back lighting levels. There is provision for the fitting of parallel-motion draughting machines.



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## Glass luminaires

MARLIN has been appointed the exclusive UK distributor for Glasglow's Limburg luminaires. Limburg is well-known for its high-quality glassware and this is reflected in the fittings which are now available from Marlin. In all some 1,300 varieties of fittings are included — uplighters, downlighters, pendants, ceiling lights, wall lights and table lamps. Six different types of glass are used and a number of different metals, including die-cast brass, die-cast aluminium, zinc and bronze.

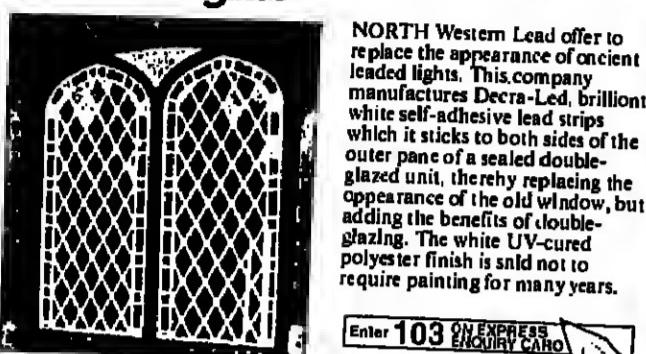
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## Friction hinges

LARGER, heavier windows are made possible if the robust Defender friction hinges from SecuriStyle are used. Smooth operation, accurate location, a weatherproof fit and an airtight seal — these are the qualities claimed for this in-house designed and built device. Off-the-shelf delivery is promised. SecuriStyle has recently become a firm of assessed capability under the BSI quality assurance scheme.

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## Leaded lights



NORTH Western Lead offer to replace the appearance of ancient leaded lights. This company manufactures Decra-Led, brilliant white self-adhesive lead strips which it sticks to both sides of the outer unit of a sealed double-glazed unit, thereby replacing the appearance of the old window, but adding the benefits of double-glazing. The white UV-cured polyester finish is said not to require painting for many years.

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## Roofing texture

TARC Tiles claims that its classic single lap concrete roof tile, with its mixture of angular and curved profiling, imparts to pitched roofs a texture which is quite distinctive. Most such tiles have curved profiles, producing roofs reminiscent of ones covered with traditional tile patterns, such as pan tiles and Roman and Spanish tiles. Others have very square profiles. Tarc Classic tiles lie somewhere between the two extremes.

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## Water coolers

ROUND-THE-CLOCK cold drinking water can be supplied. Maestro Water Coolers — the MA-1 and MA-J-20. These units hold up to 20 gallons of water, cooled to 10deg C, every hour. Both are plumbed in and can be supplied with a filter arrangement, if desired. They carry a 12-month warranty and are said to have developed with long, trouble-free life in mind.

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## Water level

ENABLING complicated levelling operations to be carried out by one man, the new water level from Akwamasta can be used to set pegs for foundation concrete, positioning shuttering, floor joists, wall plates etc, or setting out second-fix items. The operator can work around obstructions, transferring levels from one room to another. What is more, the Akwamasta is easy to carry, will withstand rough site use and has very little that can go wrong.

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## Bathroom fittings



THREE new suites of bathroom fittings have been added to the collection of bathroom accessories made by Regency. Delphic mixer taps are distinguished by rope or ribbed patterns on the level handles and a pop-up knob while the Olympic suite has curved handles. The Pegasus suite has curved handles. The Pegasus taps are operated by unusually shaped hand wheels and contrast with a classically contoured spout. All three suites can be bought in chrome or gold and polished or brushed nickel.

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## Office furniture



THIS brightly coloured storage unit and combined work surface is one of a new range from Sheraton Designs Ltd. The moulded pedestal unit can be ordered with two or four drawers and a suspended filing facility, casters are optional. It comes in hi-gloss or matt coloured finishes. It is possible to lock a line of the pedestals together.

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## Lightline



A VERSATILE new tubular fluorescent lighting system has been launched by Martin Lighting Ltd. The two models, Lightline I and II, can be installed in many patterns to liven up a ceiling. They are available in matt white or black and a colour series range. White steel or black plastic snap-in louvres and clear plastic covers are offered for Lightline I as well as track spotlight options. Lightline II has a new, more visible reflector profile.

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## New products

## Exterior fillers

A TWO-year exposure test carried out by ICI's research and development department showed that its Weathershield Stopper is the most durable. Holes and channels were cut, filled using various proprietary mixes of filler, rubbed down and given a coat of gloss paint. ICI claims that the success of its product is due to an extruder based on silica micro-spheres and a special resin which allows the stopper to expand or contract with the moisture content of timber.



## Wall tiles

HAND-PAINTED tiles from a factory in Burgundy, France are the latest additions at Tile Mart's London outlets. They are the sole UK stockists for the original tiles which have plain white or coloured options. ICI claims that the tiles are produced to individual requirements. Glazings limestone has a distinctive cream colour which weathers to tones of yellow and grey.



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## Dateline

Items for consideration must be received 10 days prior to publication

### This week

**Tuesday**  
Guided tour of I.Joyd's Building organised by the Camden Society of Architects. Venue: Lloyd's building, 2.30pm. Tickets: Chris Firth, 01-485 0991.

**Saturday**  
The Scottish Interior conference organised by the architectural Heritage Society of Scotland and Edinburgh University extra-mural department. Venue: Lecture Theatre A, Edinburgh University, Edinburgh. Cost: Conference tickets £6, students £4, lunch £4.50. Details: Department of extra-mural studies, University of Edinburgh, 11 Buccleuch Place, Edinburgh EH18 9LW.

**Sunday - Wednesday**  
Developing management skills II, course organised by the College of Estate Management. Venues: Uplands Training & Conference Centre, Cryers Hill, High Wycombe, Bucks. Cost: £525 (inclusive of accommodation, meals and documentation). Details: Mark Hartlow, (0734) 861101.

**Tuesday**  
The fence, meeting place for young

architects to present and discuss their work and views. Five speakers on various topics including landscape and interior design. Venue: SIAD room, above the ICA, Nasli House, 12 Carlton House Terrace, London SW1 SAII. Details: 01-703 1578.

**Tuesday**  
Architecture of light and sound, lecture by Professor Derek Walker. Venue: Fine Arts lecture theatre, University of Newcastle-upon-Tyne. Details: Peter Willis, School of Architecture, University of Newcastle-upon-Tyne.

**Wednesday**  
3D CAD conference. Its effect on designers, design organisations and design, an exhibition organised by Tessilec Polytechnic computer-aided design unit.

Venue: Tessilec Polytechnic, Middlesbrough, Cleveland TS1 3BA. Details: Tel: 0642) 218121 (ext 4137).

**Wednesday**  
Faults and failures, seminar organised by the Association of Building Component Manufacturers. Venue: RICS Westminster Centre, 12 Great George Street, Parliament

Square, London SW1. 10am-4pm. Cost: ABCM members £7 plus VAT, non-members £8 plus VAT. Details: ABCM, 01-580 9083.

**Thursday**  
The hand that draws, lecture by Prue Bramwell-Davies. Venue: White Box lecture theatre, School of Architecture, Hoe Centre, North Street, Plymouth, Devon PL1 2AR. Details: 01752 264645.

**Thursday**  
The establishment of trees on difficult sites, lecture by Derek Patch of the Forestry Commission Research Establishment to the East Midlands Landscape Group. Venue: Lockington Hall, Kegworth, Derby. 7 for 7.30pm. Details: Phil Rech (05097) 2722.

**Thursday**  
The return of the atrium, illustrated lecture by Richard Saxon, partner of DDP. Venue: Reynolds room, Royal Academy of Arts, Piccadilly, London W1. 6.15pm. Cost: £1.50. Details: BDP, 01-631 4733.

**Friday**  
Managing the office, the fourth in the series of one-day seminars, called "Practice Management", organised by Legal Studies & Services.

**November 22**  
The evolution of the 20th century, on

Venue: London Press Centre, Shoe Lane, London EC4. Cost: £1.65 plus £24.75 VAT for one delegate. Details: Julia Wright 01-236 4080.

**Friday**  
Rodin, BBC1's "Omnibus" uncovers new archive footage of Auguste Rodin.

**Until November 22**  
Sale of designer furniture and lighting.

Venue: Aram Designs, 3 Keen Street, London WC2. Monday-Friday 9.30-5.30pm, Saturday 10.30-4pm. Details: Paul Helmsley, 01-240 3933.

**November 22**  
Anglo-Soviet architectural forum organised by the Society for Cultural Relations with the USSR. Venue: Polytechnic of Central London, Marylebone Road, London NW1. 10.30am-4.30pm. Details: SCR, 320 Brixton Road, London SW9. Cost: £6.

**November 22**  
New shops for old, conference organised by RIBA Services. Venue: RIBA, 66 Portland Place, London W1. 10am-4.30pm. Cost: £9. Details: Sheena Parsons, 01-316 5533.

**November 22**  
Construction workload 87/88, construction organised by RIBA Services and Eterna TAC. Venue: The Linen Society room, Burlington House, Piccadilly, London W1. Details: 01-377 1722.

**November 22**  
Gilded tour of Queen Elizabeth II Conference Centre organised by Camden Society of Architects.

Venue: Queen Elizabeth II Conference Centre, 10.30am. Details: Rosalind Pilling, 01-485 0991.

**November 24**  
Architects' forum debate on the "New Architecture" exhibition with Norman Foster, Richard Rogers and James Stirling. Venue: Meet in the foyer of the Royal Academy, 6pm. Cost: £6.50 per person to DIA members and their guests, £7.50 to non-members. Details: Design & Industries Association, 17 Lawn Crescent, Kew Gardens, Surrey. Tel: 01-940 4925.

**November 25**  
Inaugural lecture for the Eric Lyons memorial fund by Norman Foster. Venue: RIBA, 66 Portland Place, London W1. 6.15pm. Details: RIBA 01-580 5533.

**November 25**  
Getting further into Europe — the potential and the problems, an evening forum organised by the British Standards Institution. Venue: BSI Conference Centre, 61 Green Street, London W1. 6 for 6.30pm. Cost: £5.40 for members of BSI. Details: The Secretary, Education Section, BSI, 2 Park Street, London W1 2BS.

**November 25**  
Problem tutorial organised by the Building Research Establishment. Venue: Building Research Establishment, Garston, Herts. Cost: £55. Details: Patricia Rowley BRE, (0932) 674040 (ext 522).

**November 25**  
Architects' seminar on interior landscaping. Venue: The Building Centre, 26 Store Street, London W1. 9.30-4.45. Cost: £13. Details: Pathos, 31 Second Avenue, Frinton-on-Sea, Essex CO13 8ER. Tel: (0256) 787755.

**November 25**  
Architects' Data by Ernst Neufert. Available for the first time in paperback, this well-known design guide offers over 400 pages of building types. Price £19.45.

**November 25**  
Architects' Postcards 2 sets of 8 colour postcards by Louis Hellman. Set 1: Wright, Le Corbusier (twice), Astor, Foster, Graves, Meier and Stirling. Set 2: Ondrej Macklausk, Ralph Erskine, Bruce Goff, Charles Moore, Leon Krier, Terry Farrell and Philip Johnson. Price: Set 1: £1.50; Set 2: £2.50.

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**November 25**  
Photographs of 18th century French and English gardens by Geoffrey James. Venue: RIBA Heinz Gallery, 21 Portman Square, London W1. Monday-Friday 11am-5pm, Saturday 10am-1pm. Closed Sundays. Details: 01-580 5533.

**November 25**  
Expert evidence in valuation disputes and planning appeals, course organised by the College of Estate Management, Parkway Hotel, Leeds. Cost: £39. Details: Maureen Coleman, (0734) 861101.

**November 25**  
Disputed evidence in valuation disputes and planning appeals, course organised by the College of Estate Management, Parkway Hotel, Leeds. Cost: £39. Details: Maureen Coleman, (0734) 861101.

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# Readers' Free Advertisements

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Rates for commercial advertisements will be supplied on request.

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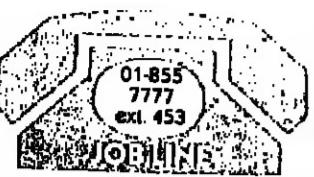
**FOLDING BICYCLE.** The lightest and most compact folding bicycle available, made by Bickerton. Action in 2 seconds, fold to suitcase dimension, weighs approx. 10kg. Five speed gear, good all round brakes. Believed to be less than half price of £28. Tel: 01 232 2324, Calderbank, on Huddersfield Road

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We are employment consultants who specialize in the placement of architectural, permanent and contract personnel. We have vacancies for Assistants/Technicians and Architects in London and Home Counties. For further details please phone Martin Morrison or Karen Spencer.

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Architects | Surveyors  
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4 ARCHITECT/TECHNICIAN with commercial experience and design flair for responsible post - Herts.  
4 ARCHITECTURAL TECHNICIAN for high quality interior schemes C. London constituency.

4 ARCHITECTURAL ASSISTANT to work on large range of building types - Surrey.

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PROJECT ARCHITECT with high design and presentation skills. 3 years post-qual.

CAD Experience? Particularly RIBA/C & GDS.

Application form from Staffing Office, Room 218, Guildhall, Kingston upon Thames KT1 1EU. Tel ext 2215 (ansaphone).

Closing date: 26th November 1986.

Salary £13,725 - £16,983 (inclusive of London Allowance).

Application form and further details are available from: The Personnel Office, The Polytechnic of North London, Holloway Road, London N7 8DB Telephone 609-9913 (24 hour answering service).

Closing date for the receipt of applications: 26 November 1986.

At the request of advertisers, readers are asked to refer to Building Design when replying to advertisements on this and other pages.

# APPOINTMENTS

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URGENTLY REQUIRE

for numerous temporary and permanent vacancies in London and the UK  
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Appointments

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ARCHITECTS

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Bath Bedford Bristol Exeter Ipswich Plymouth Romsey Truro

## TECHNICIANS

urgently required in Central London for vacancies working on historic buildings, housing, offices, shopping centres and leisure projects. The ideal candidate would have at least 5 years office experience on relevant projects and be able to work with little supervision. £16K-£18K.

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£10K + £2K  
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8 Staff Supervision, Project Running, Complete Design Involvement, Client + Contractor liaison. To find out more about this opportunity ring me now!  
0703 38026  
1/2 Portland Street, Southampton SO9 1FH

### LONDON BOROUGH OF SOUTHWARK HOUSING DEPARTMENT

## Southwark Needs Surveyors

Southwark Housing Surveyors need Surveyors or Architects who are capable of facing the challenges of the regeneration and maintenance of an inner city Borough's housing stock.

## Building Surveyors

S09-P01 £10,900-£14,889 inclusive of LW (Ref BD/6/7593)

Applicants should be either qualified surveyor/architects or be able to demonstrate part qualification with extensive experience. You must be capable of working on your own initiative on major projects and supervising staff.

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Scale 6-S01 £10,900-£14,886 inclusive of LW (Ref BD/6/7594)

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## CHARLES CHURCH ARCHITECTURAL ASSISTANT

required to join existing team producing house layout and house design for residential development company. Applicants must possess imaginative design ability to produce high quality housing schemes. Experience in planning procedures and the building regulations essential to negotiate with local authority departments to achieve successful schemes.

Preferred age 26-30 with HNC, RIBA Part I or equivalent qualification with at least 5 years practical experience.

Please write with C.V. to:  
Mr P V Hamilton

Charles Church Development Ltd  
Charles Church House, Knoll Road  
Camberley, Surrey GU5 3TQ

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## Assistant Surveyors

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The Division which encourages a multi-disciplinary approach to its work has responsibility for a large rehabilitation, maintenance and improvement programme to the Council's 62,000 property holding stock.

All these posts are demanding and challenging, requiring a flexible and innovative approach, and in return offer prospects for job satisfaction. The wide scale and scope of the work offers good career development opportunities to applicants working towards a professional qualification.

Southwark is an equal opportunity employer. Applications are welcome from candidates regardless of sex or ethnic origin and from registered disabled persons.

Telephone 01-701 2870 or 01-708 1954 (24 hour answering service) for application form, or write on a postcard to The Personnel Officer, London Borough of Southwark, 25 Commercial Way, London SE1 5BB.

Please quote appropriate reference number and job title. Last date for receipt of completed Application Form: 5.15.86.

At the request of advertisers, readers are asked to refer to Building Design when replying to advertisements on this and other pages.

# APPOINTMENTS

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**ARCHITECTS**  
**Architects & Technicians**  
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BTP is a small, self-contained practice which enjoys the backing of the MWT Group. We operate from attractive offices overlooking parkland in the university area of Bristol and our workload is experiencing a very satisfactory rate. We need to recruit more young architects and technicians with design skills and some job running experience to whom we can guarantee pleasant working conditions, generous terms and job satisfaction.

Please telephone  
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3 Berkeley Square,  
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**UNUSUAL OPPORTUNITY**

c. £14,000 p.a.  
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Please write to:  
David Baker RIBA,  
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**PERCY THOMAS PARTNERSHIP**
**QUALIFIED ARCHITECT**  
 with several years experience

**QUALIFIED ARCHITECTURAL  
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 also with several years experience

To work on a variety of interesting commercial, health and refurbishment projects some of which are in conservation areas and require a sensitive appreciation of the existing urban fabric. These posts are for permanent staff and offer excellent career prospects. There is a lively and congenial working environment in modern air conditioned offices. Good salaries will be paid to applicants showing exceptional ability.

Please write to me quoting ref. A1 with samples of your recent work, an account of your aspirations and capabilities and a C.V.

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Percy Thomas Partnership  
Civic House, 156 Great Charles Street  
Birmingham B3 3HN  
Tel: 0121 233 4474

**County of Cleveland** 

PLANNING DEPARTMENT

Re-advertisement

**TECHNICAL OFFICER**

(Environment)

CX1227, £11,000-£10,164

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The person appointed will be a member of a team of eleven responsible for the planning, design and implementation of a wide range of building refurbishment and environmental improvement projects throughout the County. The person appointed will have special responsibility towards the scheme of enhancement works relating to run-down industrial and landowner areas, in addition to improve.

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Assistance with removal and relocation expenses will be provided in approved cases. Temporary housing accommodation may also be available within the County area.

For an application form and further details please contact Greg Watson on Middlebrough 249188, ext. 2422 or write to the County Planning Officer, Gurney House, Gurney Street, Middlebrough, Cleveland TS1 1QT.

Closing date for applications is 26th November, 1986.

We are an equal opportunities employer. Job sharing arrangements will be considered and all applicants who have the support of the Disablment Officer will be granted an interview.

# APPOINTMENTS

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Architects**
**Practice Manager  
(Architect) — PO2B**

The Construction Division of Brent Development is a multi-disciplinary design and property management service to the Council.

The professional sections work in Practice groups each headed by a Practice Manager and a vacancy now exists for an Architect to manage one of our Housing Practices.

We are looking for a professionally qualified person who has considerable senior level experience and can successfully undertake this leadership role. Working within tight programmes and budgets this post offers the challenge to maintain design standards and achieve targets, using and developing innovative techniques and approaches.

Opportunities exist to do work for voluntary sector clients, housing associations and other public bodies and there is an increasing new build workload.

Salary is in the range of £16,011 to £17,180 plus £1,123 LW and supplements.

Brent is an Equal Opportunity Employer. Applications are welcome from candidates irrespective of race, nationality, ethnic or national origin, age, marital status or gender and welcome.

Application forms and job descriptions from the Personnel Division, Room 1, Brent Town Hall Annex, Kings Drive, Wembley, Middlesex HA9 8BR returnable by 5th December 1986. Telephone 0895 0371 (24 hour answering service). Reference number D/10 must be quoted.

Write with full details to: Personnel Manager, Royal Liver Friendly Society, Royal Liver Building, Liverpool L3 1HT.

Closing date: 5th December, 1986. Please quote ref. K838.

For further details and an application form contact The Recruitment Officer, Personnel Department, Town Hall, Forest Road, London E17 4JF [Tel: 01-531 8899 - 24 hour answering service].

An EQUAL OPPORTUNITY EMPLOYER

Applicants are considered for their suitability for the post regardless of disability, race and marital status.

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London Borough

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 require a young registered  
**ARCHITECT**

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 DEPARTMENT OF PUBLIC WORKS  
 ARCHITECTS SERVICES  
**ARCHITECT/ARCHITECT'S  
ASSISTANT**  
 REF 6107

£20,111,604 to £12,297

Applications are invited from qualified Architects for this demanding post in a very busy architectural practice.

The successful applicant will be a member of a team of Architects and Technicians responsible to a Senior Principal or Principal Architect for a wide range of duties including:

— architectural work in the implementation of projects from inception to completion;

— the performance of duties as required by the relevant JCT form of contract (or such other form as the Council may select);

— working within the parameters of the Department's Finance Regulations and Standing Orders.

The successful candidate will be expected to demonstrate flexibility and a determination to ensure that the Division's high standards of work and performance are maintained.

The Division is a user of computer technology to aid design and drawing production. Experience and interest in this field, while not essential, would be useful.

All applications must be made on a Public Works application form. These are available, together with further details, by writing and enclosing a stamped addressed envelope, to the Director of Public Works, Personnel Section, Department of Public Works, Sweet Street, LEEDS LS1 1SD.

Closing date: 1st December, 1986.

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We offer competitive salaries, excellent working conditions and genuine opportunities for increased responsibility and advancement.

Please write in the first instance stating full career details to us and indicating salary required, or telephone for an application form.

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 Personnel Officer  
 Lesser Design & Build Limited  
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 Middlesex TW11 ORW  
 Tel: (01) 877 8758

**TEMPORARY ARCHITECT**  
 SO1/PDA £10,888-£12,884 (Spinel Point 28-38)

The Council is seeking to appoint a Temporary Architect for an initial period of six months to work on a variety of projects.

Applicants should be registered architects and have a minimum of three years post qualification experience.

Starting salary will depend upon experience.

Job descriptions and application forms are available from the Head of Personnel Services, Town Hall, Darlington DL1 8QU, Telephone (028) 380981, extension 318) to whom they should be returned by Friday 28th November 1986.

For further details telephone Mr C. S. Davison, Assistant Borough Architect, on extension 111.

DARLINGTON BOROUGH COUNCIL IS AN EQUAL OPPORTUNITIES EMPLOYER

**HOUSING DEPARTMENT**

**Building Surveyors  
& Technicians**

Up to £12,000 pa

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In addition to this the division is also responsible for day to day repairs, vacant properties, services and external decorations contracts. The Division is newly established and rapidly expanding in terms of budget and responsibility. Promotional prospects are therefore very good. Although a relevant technical or professional qualification is desirable, experience, ambition and enthusiasm are qualities high on our list.

Candidates will require to possess considerable experience, maturity, and ability to work on own initiative and be able to control a programme of repairs/maintenance/upgrading/fitting-out, budgeting, controlling works direct and through appointed professional staff.

A salary in the order of £12,500/£13,000 is offered, plus fringe benefits including annual bonus, excellent contributory pension scheme, concessionary mortgage facilities and relocation expenses where appropriate.

Write with full details to: Personnel Manager,

Royal Liver Building, Liverpool L3 1HT.

Closing date: 5th December, 1986. Please quote ref. K838.

For further details and an application form contact The Recruitment Officer, Personnel Department, Town Hall, Forest Road, London E17 4JF [Tel: 01-531 8899 - 24 hour answering service].

An EQUAL OPPORTUNITY EMPLOYER

Applications obtainable from the Personnel Office, Room A/204, Town Hall Annex, New Broadway, Ealing W5 2BY. Tel 01-840 1995 (24 hour service). Please quote appropriate reference.

Ealing's new Council welcomes applications regardless of sex, race, ethnic origin, sexual orientation, disability or responsibility for dependents.

You're all welcome ..... write now or initially call 01-579 2424 and speak to

Ian McKechnie, Assistant Borough Architect (Housing) Ext. 2510

or Michael Burrows, Assistant Borough Architect (Education, Social Services &amp; General) on Ext. 2517.

Closing date: 3.12.86

Application forms obtainable from the Personnel Office, Room A/204, Town Hall Annex, New Broadway, Ealing W5 2BY. Tel 01-840 1995 (24 hour service). Please quote appropriate reference.

Ealing's new Council welcomes applications regardless of sex, race, ethnic origin, sexual orientation,

disability or responsibility for dependents.

**ROYAL LIVER**

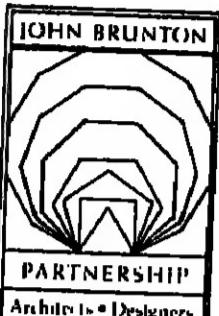
ASSOCIATES

ROYAL LIVER

# APPOINTMENTS

**ARCHITECTS & TECHNICIANS**

for  
CITY OF LONDON  
Required with proven practical and design ability for a range of exciting housing and commercial projects.  
Send c.v. to:  
Unity Wharf  
Mill Street  
London SE1 2DD



We are an equal opportunity employer.

**HEDLEY GREENTREE PARTNERSHIP**
**ARCHITECTS & TECHNICIANS**

We continue to expand and again are looking for additional staff to join us in our award winning offices on the South Coast. We need at least two more qualified Architects with substantial experience and the drive and enthusiasm to see multi-million pound projects through to completion.

Please write to me quoting Ref A9 with samples of recent work account of your aspirations and capabilities and a C.V.

We are also looking for reliable and experienced Technicians with at least 3 years, and more, experience.

These positions offer long term employment in a practice that is currently handling some of the most exciting projects on the South Coast.

You should write in the first instance, enclosing examples of your best work to:

Peter F Allchurch RIBA Dip Arch (Hons)  
Hedley GreenTree Partnership  
Furzehill Farm, Wickham Road  
Fareham, Hants PO16 7JH

**PERCY THOMAS PARTNERSHIP**
**YOUNG QUALIFIED ARCHITECT**

To work on a variety of small projects in the health field offers scope for someone with design ability and initiative to carry jobs through from inception to completion.

This post is for a permanent member of staff and offers excellent career prospects. There is a lively working environment in modern air-conditioned offices. A good salary will be paid to the right person showing exceptional ability.

Please write to me quoting Ref A9 with samples of recent work account of your aspirations and capabilities and a C.V.

John P B Gilmour  
Percy Thomas Partnership  
Civic House, 156 Great Charles Street  
Birmingham B3 3HN  
Tel: 021 233 4474

**FARMER AND DAWK**
**have openings for a SENIOR ARCHITECT**
**with experience in Industrial architecture and TECHNICIANS**

with a minimum of four years experience.

Please write with CV to Farmer and Dawk

131 Upper Richmond Road, London SW15 2TR

**DESIGN ARCHITECTS ASSISTANT ARCHITECTS**

The practice has a number of new projects in the London area and is seeking staff with 3-5 years experience to work on schemes from concept/design through to working drawings.

**INTERIOR DESIGNERS**

A Designer with at least 10 years of varied experience of high quality work is required for the Interior design section of the office.

Projects currently being undertaken include hotels and offices, superstores, higher educational buildings and refurbishment.

Please apply in writing, enclosing a CV to:

Liz Sanders  
John S Bonington Partnership,  
Tettenhanger House, St Albans, Herts AL4 0PG

**CLIVEDEN**
**ARCHITECTURAL**
**Architectural Contracts**

1. 2 Assistants, 2 Technicians  
needed now for contract in Bucks area, good rates.

2. Assistant  
required for contract work for retail customer in Berks area, long contracts.

3. Assistants/Technicians  
required for PERMANENT positions in the Berks, Surrey, Bucks and Cheshire areas £11,000 to £12,000.

Please telephone or write to:

Barry Howard C Eng MICE  
Cliveden Technical Environment Consultants  
82 The Broadway, Bracknell, Berks RG11 1AR  
(0344) 449469 Fax: 0344 449470  
(01344) 218934 (OUTOFHOURS)  
(01344) 213968 (STEVENAGE)  
(0151) 831 8636 (LONDON) (0483) 213968 (STEVENAGE)



**THE BARTON WILLMORE PARTNERSHIP**  
We wish to expand our London office and require the following staff to work on a variety of interesting and challenging building types.

**ARCHITECTS**  
graduates (RIBA) age 25-35 with proven design ability and capable of working with the minimum of supervision.

**ARCHITECTURAL TECHNICIANS**

aged 25-35 should hold HNC in building and preferably be members of BIAT.

Attractive salaries and benefits, including paid overtime, to the successful applicants.

Please apply in writing with full C.V. and present salary.

R. B. HALL ESQ, The Barton Willmore Partnership, 6 Golden Square, London W1R 4HN



DAVID WILSON HOMES  
Homes for all life stages

Agencies need not apply

For further details please write enclosing a current C.V. to:

Mrs I Killie, Personnel  
Administrator, A H Wilson  
Group Limited, Leicester Road,  
Leicester, Leicestershire  
Agencies need not apply

Applications are invited for the above positions in the Design Department situated at our Head Office in Birstall.

The successful applicant will be involved in the preparation of estate layouts, feasibility studies and land purchase schemes together with other aspects of work associated with a large developer.

Applicants will be aged 25-35 years, qualified to HTEC and have an applied knowledge of housing layouts.

This is an exceptional opportunity to join a progressive and expanding company providing 'in-house' design and engineering support.

For further details please write enclosing a current C.V. to:

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# APPOINTMENTS

**LEVITT BERNSTEIN ASSOCIATES LTD.**  
Urgently require talented and experienced architects/designers. Applications should be made in writing, enclosing a C.V. and examples of recent work, to:

David Lewis,  
30 Oval Road,  
London, NW1 5DE.

**SURVEY PRACTICE  
requires  
ARCHITECTS**  
An enthusiastic and competent architect with a minimum of 2 years post qualification experience is required to join a surveyors based in an overated and expanding workload. High standard of design and an interest in the built environment is essential.  
Apply in writing with C.V. to:  
The Whitworth Co-Partnership, 17 Crown Street  
Bury St Edmunds, Suffolk IP3 5AX  
Tel: 0394 40481

## Elsworth Sykes Partnership

Seek applications for the following appointments to work on high quality commercial developments.

### ARCHITECTS

With a minimum of one year's post qualification design experience.

### TECHNICIANS

With around 5 years detailed working drawing experience.

Apply in writing to:

Michael Hermon  
Elsworth Sykes Partnership  
Roxburgh House  
273 Regent Street, London W1R 8BX

## Bickerdike Allen Partners BUILDING SURVEYORS

**BICKERDIKE ALLEN PARTNERS** the architectural practice specialising in architecture, design and building defect investigation and related responsibilities, are looking for experienced and committed building surveyors to share our substantial workload. We work with legal teams and our own teams include architects, engineers, scientists and other specialists. A methodical survey approach in a cost-effective manner together with an ability to produce accurate and concise reports is essential. Applicants must hold a clean driving licence as the work involves travelling throughout the United Kingdom with some overnight stops.

Salary negotiable, subject to experience.

Please send preliminary details and telephone number to:

Mrs J. Dyer  
Bickerdike Allen Partners  
121 Salisbury Road  
London NW6 6RG

## EXPERIENCED ARCHITECTS and TECHNICIANS

We seek experienced staff for our Technical Research Group which forms part of the office's central resource facility, including the library and computer services.

We are presently seeking to fill two posts, one for a person having a genuine technical aptitude, to assist in the development of the technical and theoretical projects, the other to have experience in the preparation of specifications and technical reports.

Candidates should be enthusiastic, seeking an interesting and rewarding career within the Group.

Previous experience in this field would be an advantage.

**ARCHITECTURAL ASSISTANT  
— PART III SUITABLE**  
required for small Hampstead practice. Conversion work and new projects. Salary to be based on age and capabilities.  
Telephone: 01-435 5801

**EDMUND TORY & ASSOCIATES  
require  
ARCHITECTS & TECHNICIANS**

with a genuine interest in CAD  
We have an expanding workload in both the private and public sectors and offer good salaries and working conditions.

Contact:  
Bob Bunn or Alan Whitehead  
Telephones (044 27) 2671  
or write to:  
Edmund Tory & Associates,  
954 High Street  
Berkhamsted, Herts HP4 1AQ

**Cazenove Architects Cooperative**  
requires a Black or Asian

**ARCHITECT/ARCHITECTURAL  
TECHNICIAN**

To complete our 9 strong team working on publicly funded new build and rehab projects in North and East London. The successful applicant will have several years experience of running projects from inception to completion and will be committed to sharing the running of the practice. Salary £14,000 p.a.

Please telephone Susan Pearce 01-249 8989 or write to:  
8 Bradbury Street  
London N16 5JN

Cazenove is an equal opportunity employer. This vacancy is covered by section 38 of the race relations act.

**Frederick, Gibberd, Coombes & Partners**

### ARCHITECTS

We are interested in meeting newly qualified Architects and Part II students capable of developing design ideas at concept and production stages to achieve a high standard of Architecture.

The Practice has an expanding programme of substantial commercial and restoration schemes and requires people willing to participate in the evolution of these projects.

If you have experience in these areas and would like to learn more about the Practice please write or telephone in confidence.

Robert Walker,  
Frederick, Gibberd, Coombes & Partners,  
82-84 St. John Street,  
London EC1M 4BP.

Telephone: 01-250 3051

**EAST HAMPSHIRE  
DISTRICT COUNCIL**

### ARCHITECT

to £12,297

An Architect with all round experience is required to lead a small team responsible for the Council's programme of new housing. Opportunities will arise from time to time to be involved with design and refurbishment of other buildings.

### SURVEYING ASSISTANT

to £10,164

A Surveying Assistant to join a team responsible for improvement of Council Houses, Maintenance and Modification of existing Sports & Leisure Centres, Offices and Works Depot.

East Hampshire District Council's modern headquarters adjoin open countryside 2 miles out of Petersfield, Hampshire and have excellent sports facilities close by. Removal expenses and car allowance will be paid for both posts.

Application forms and Job Description available from the Director of Technical Services, East Hampshire District Council, Penrice Place, Durford Road, Petersfield, Hampshire GU31 4EX, Closing date: 1st December, 1986.

Write with C.V. to David Potts at address below

**COVELL MATTHEWS WHEATLEY  
ARCHITECTS**

19 Bourdon Place, London W1X 9HZ

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# APPOINTMENTS

## DO YOU NEED TO RECRUIT A PROPERTY PROFESSIONAL?

Advertise with confidence for both public and private sector appointments with Estates Times the proven best read property publication amongst property professionals.

Call David Penny right now for a media pack and full details about how Britain's specialist property newspaper can help you get the pick of the best property professionals.

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Nin 01-855 7777 Extension 571, or write to:  
Estates Times Appointments, Morgan-Grainger House, 30 Calderwood Street, London SE18 6QH.



**YOUNG DYNAMIC PROJECT ARCHITECT**  
Now required for a leading architectural practice based in the West Midlands. Mainly residential but some hotel, restaurant, old peoples homes etc. You must be capable of working on a multitude of projects and able to demonstrate a strong track record to completion within 3 years experience.  
Please send a C.V. stating salary required to:  
S. F. Hall  
49 Rodney Road, New Malden, Surrey KT3 5QD

**ROEVIN**  
Architects & Architectural Technicians  
for staff and management vacancies in the North West and Yorkshire.  
Phone the office on 01-855 3878 or C.V. to:  
Roevin Limited  
36-38 Station Road, Hale, Cheshire M3 1SY  
(ADENCV)

**Architect : Assistant**  
required for high quality residential projects.  
Please write with C.V. to:  
WILLIAM GRAY  
BOND PROPERTIES LTD  
39/41 BROMPTON ROAD  
LONDON SW3 1DE

**ARCHITECTURAL  
TECHNICIANS**  
For staff and/or office staff in London.  
HNC level with experience.  
Reply with C.V. to:  
Peterson Macaulay and Owens  
Royal Oak  
Opposite Royal Oak  
Higher Buntington  
Waltham Cross  
Hertfordshire EN8 8PY

**ARCHITECT/SURVEYOR**  
Required by private architects to administer and supervise the refurbishment and extension of flats in a London borough. The post is offered for the fixed term of the building contract of about 18 months. Salary negotiable.  
Write with full CV to:  
Stephen Roberts Associates  
71 Carnimore Road,  
Lincoln LN1 1RT

**ARCHITECTURAL  
TECHNICIAN**  
Required by busy Lincoln office.  
Age 25/30 with bias to residential work. Expanding workload, pleasant working conditions — salary negotiable.  
Write with full CV to:  
Stephen Roberts Associates  
71 Carnimore Road,  
Lincoln LN1 1RT

**ARCHITECTURAL  
TECHNICIAN**  
Required for busy office with varied workload. Must have at least 3 years experience.  
Apply in writing to:  
Hertford Planning Service  
98-100 Fore Street  
Hertford, Herts SG1 1AB  
Tel: 0992 855173

**Junior Architectural  
Technician required**  
with 2-3 years experience.  
Able to work on own initiative. Varied and interesting architectural and interior design work.  
Apply in writing to:  
Planning and Building Associates  
2nd Floor, 71 The Rock, Bury

**Haverstock  
Associates**  
**ARCHITECT/WRITER  
RESEARCHER**  
Recently or newly qualified architect to work on new buildings, research and technical information. Must be able to show writing and drawing skills as well as the ability to work under pressure in construction — salary approx. £12,000.  
Please write with CV to:  
10 Caff Road Studios  
London NW1 6AN

## FOR SALE

**ANDREW  
GRIMA**  
of Denison Street says  
Others are invited for the  
Grimo Shipton partnership.  
Brian Grima, founder of the firm,  
is now deceased and all plans  
designed by Geoffrey Clarke

Tel:  
Miss Curtis on  
01-262 7700

## COURSE

**Centre for Alternative Technology  
WEEKEND  
COURSES**  
PASSIVE SOLAR BUILDINGS  
SOLAR COLLECTOR DESIGN  
WINDPOWER  
For details write to Lesley Bradman  
CAT, Machynlleth, Powys  
Tel 0654 2600

## WEYMOUTH, DORSET

Experienced architect to lead a design team of established, end design partnership.

We require a qualified architect, experienced in both design contract management able to demonstrate technical business acumen and management skills. Good remuneration package inc. car. December start preferred.

Write with C.V. to:  
G. J. Northcote BSc, A.R.I.C.S.  
Adams Rench & Wright, Survey and Design  
308 St. Thomas Street  
Weymouth, Dorset DT4 8EJ

## CRUCKSHANK & Seward

require

### ARCHITECTS

With a minimum of 2 years experience to work on interesting new jobs. A high standard of design and technical ability required.

Please apply in writing with C.V. to:  
Cruckshank & Seward  
Royal London House  
196 Deansgate  
Manchester M3 3WP

## YORKSHIRE REGIONAL HEALTH AUTHORITY REGIONAL ARCHITECT'S DEPARTMENT

### TECHNICAL ASSISTANT

GRADE III

Salary Scale £5,892-£7,948 per annum Ref P199

We require a Technical Assistant III to join a team of Architects and Technicians engaged in an on-going programme of health buildings. Applicants must have a relevant C.N.C with 4 years experience or have 5 years experience. Candidates who have alternative qualifications in appropriate subjects will be considered. Experience in health buildings will be an advantage.

Application form and job description may be obtained from and should be returned to the Personnel Services Manager, Yorkshire Regional Health Authority, Park Parade, Harrogate HG1 5AH. Closing date Wednesday 19 November 1986.



Please contact David Taylor  
Technical Staff Appointments Ltd  
Alliance House, 19 Carlton Street, SW1  
Tel: 01-992 3923 (6 lines)

1. LONDON W1 - Busy practice needs an Architectural Technician with 3 years exp. Salary neg depending on ability (ref 315).

9. BURNHAM, Bucks - An Architectural Asst Tech to join busy design office involved in wide range of residential & commercial projects. Probably 20% with at least 3 years exp. Salary neg. (ref 1035).

3. LONDON SW1 - Small practice needs Architect about 30, with 5 years experience. Firm does residential & commercial with some restoration (ref 1595).

4. TUNBRIDGE WELLS, Kent - Vacancy for recently qualified Architect with 3 years post qualification experience in multi disciplined practice. Knowledge of C.U.C.A.D useful but not essential. Salary neg (ref 1301).

3. HIGH WYCOMBE, Bucks - Openings for an Architect and Technician at least 8 years exp post HNC for residential refurb & some work on commercial projects, some new build work too. Salary £10K (ref 9033).

6. LONDON WC1 - Practice needs recently qualified or part IIAI architect in preparation of design & working drawings for a variety of projects. Salary neg (ref 963).

7. LONDON NW1 - Busy, well known, practice seeks qualified Architects with 8-3 years post grad exp. Temp posts initially. Rates neg (ref 387).

8. LONDON W1 - Practice is looking for a lively, design & production Architect for commercial & retail projects. Sal neg (ref 134).

9. LONDON W1 - Vacancy for an Architect or Arch Asst for general refits. Ideally someone with part III RIBA exp mid 90's. Sal neg (ref 1159).

10. RICHMOND, Surrey - Vacancy for a qualified Architect 32+ post holder, experienced in full coverage of commercial projects up to £250k. Good prospects for right person. Salary to £15K-£16K. Good design ability essential (ref 1064).

Have an immediate need to meet an expanding new build rehabilitation workload necessitating the following staff:

## ILFORD ESSEX OFFICE SENIOR ARCHITECTURAL TECHNICIAN

Recently qualified

### ARCHITECT or PART II/ TECHNICIAN HNC

Building Surveyor

RICS INTERMEDIATE/HNC

LONDON W1 OFFICE

Recently qualified

### ARCHITECT or PART II/ TECHNICIAN HNC

Safety commensurate with age and experience.

Pay release for Professional Courses encouraged

Contact:  
Margaret Beny — Practice Secretary — 01-514 3030

Write with C.V. to David Potts at address below

**ATP GROUP PARTNERSHIP**

have an immediate need to meet an expanding new build

rehabilitation workload necessitating the following staff:

## ERIC LYONS CUNNINGHAM PARTNERSHIP

urgently require an Assistant Architect with 5-10 years' experience, for work on an interesting high-tech exhibition centre.

Please write with c.v. to:

Eric Lyons Cunningham  
Partnership, Mill House  
Studio, Bridge Road, East  
Holesey, Cambridgeshire PE19 8HF.

Closing date: 30th November 1986.

Write with C.V. to:

Mr J. Herman  
Technical Design Partnership  
Blue Court, 1 Church Lane  
Kings Langley, Herts